

# Product information BOBCAT - BRS20-4TX

https://catalog.beldensolutions.com:443/link/57078-2445	5-49854-503664-503665/en/BRS20-04009999-STCY99HHSES07.0./uistate
Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Delivery informations	
Availability	available
Product description	
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Port type and quantity	4 Ports in total: 4x 10/100BASE TX / RJ45;
Туре	BRS20-4TX
Order No.	942 170-001
More Interfaces	
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Network size - cascadibility	
Line - / star topology	any
Power requirements	
Operating voltage	2 x 12 to 24 VDC
Software	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port
	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dump
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logging
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
The same has also also	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
Ambient conditions	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Operating temperature	0 °C 60 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	
Mechanical construction	1 % 95 %
Dimensions (W x H x D)	57 mm x 138 mm x 115 mm
Mounting	DIN Rail
Weight Protection close	380 g
Protection class	IP30
Housing material	Plastic
Mechanical stability	15 x 14 ms dumber
IEC 60068-2-27 shock	15 g, 11 ms duration





Industrial Ethernet:Compact configurable managed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT	
https://catalog.beldensolutions.com:443/link/57078-24455-49854-503664-503665/en/BRS20-04009999-STCY99HHSES07.0./uistate	
5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g	
6 kV contact discharge, 8 kV air discharge	
10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)	
2 kV power line, 2 kV data line	
power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line	
10 V (150 kHz-80 MHz)	
FCC 47 CFR Part 15 Class A	
EN 55032 Class A	
CE, FCC, EN61131, EN62368-1	
cUL61010	
1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input	
AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw	
lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx	

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





# Product information BOBCAT - BRS20-8TX

Industrial Ethernet:Compact configurable manag	ed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
https://catalog.beldensolutions.com:443/link/57078-2445	5-49854-503664-503665/en/BRS20-08009999-STCY99HHSES07.0/uistate
Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Delivery informations	
Availability	available
Product description	
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Port type and quantity	8 Ports in total: 8x 10/100BASE TX / RJ45;
Туре	BRS20-8TX
Order No.	942 170-002
More Interfaces	
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Network size - cascadibility	'
Line - / star topology	any
Power requirements	'
Operating voltage	2 x 12 to 24 VDC
Software	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port
3	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dump
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
g	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
ossaniy	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logging
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
neutriuancy functions	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	0.00 0.000
Operating temperature	0 °C 60 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction	
Dimensions (W x H x D)	73 mm x 138 mm x 115 mm
Mounting	DIN Rail
Weight	420 g
Protection class	IP30
Housing material	Plastic
Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration





Industrial Ethernet:Compact configurable manage	od switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
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IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, ENG1131, ENG2368-1
Safety of industrial control equipment	cUL61010
Scope of delivery and accessories	
Scope of delivery	1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





# Product information BOBCAT - BRS20-4TX/2FX

ndustrial Ethernet:Compact configurable managed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT		
nttps://catalog.beldensolutions.com:443/link/57078-24455-49854-503664-503665/en/BRS20-0600M2M2-STCY99HHSES07.0./uistate		
Name	BOBCAT	
	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.	
Delivery informations		
Availability	available	
Product description		
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.	
Port type and quantity	6 Ports in total: 4x 10/100BASE TX / RJ45; 2x 100Mbit/s fiber; 1. Uplink: 1 x 100BASE-FX, MM-SC; 2. Uplink: 1 x 100BASE-FX, MM-SC	
Туре	BRS20-4TX/2FX	
Order No.	942 170-003	
More Interfaces		
Digital Input	1 x plug-in terminal block, 2-pin	
Power supply/signaling contact	1 x plug-in terminal block, 6-pin	
Local Management and Device Replacement	USB-C	
Network size - length of cable		
Twisted pair (TP)	0 m 100 m	
Multimode fiber (MM) 50/125 µm	0-5000 m, 8 dB Link Budget at 1300 nm, A=1 dB/km, 3 dB Reserve, B = 800 MHz x km	
Multimode fiber (MM) 62.5/125 µm	0 - 4000 m, 11 dB Link Budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 500 MHz x km	
Network size - cascadibility		
Line - / star topology	any	
Power requirements		
Operating voltage	2 x 12 to 24 VDC	
Software	2.12.021.00	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet	
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port	
Diagnostics	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port	
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dump	
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP	
Configuration		
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface	
Consults	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help	
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN	
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate	
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logging	
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;	
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);	
	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards	
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server	
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down	
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust	
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN	
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast	
	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)	
Ambient conditions		
Operating temperature	0 ℃ 60 ℃	
Storage/transport temperature	-40 °C 70 °C	
Relative humidity (non-condensing)	1 % 95 %	
Mechanical construction		
Dimensions (W x H x D)	57 mm x 138 mm x 115 mm	
Mounting	DIN Rail	
Weight	420 g	
Protection class	IP30	
Housing material	Plastic	
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Industrial EthernatiCompact configurable manage	ged switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
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Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, EN61131, EN62368-1
Safety of industrial control equipment	cUL61010
Scope of delivery and accessories	
Scope of delivery	1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





# Product information BOBCAT - BRS20-8TX/2FX

Industrial Ethernet:Compact configurable mana	ged switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
https://catalog.beldensolutions.com:443/link/57078-244	155-49854-503664-503665/en/BRS20-1000M2M2-STCY99HHSES07.0./uistate
Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Delivery informations	
Availability	available
Product description	
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Port type and quantity	10 Ports in total: 8x 10/100BASE TX / RJ45; 2x 100Mbit/s fiber; 1. Uplink: 1 x 100BASE-FX, MM-SC; 2. Uplink: 1 x 100BASE-FX, MM-SC
Туре	BRS20-8TX/2FX
Order No.	942 170-004
More Interfaces	
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Multimode fiber (MM) 50/125 µm	0-5000 m, 8 dB Link Budget at 1300 nm, A=1 dB/km, 3 dB Reserve, B = 800 MHz x km
Multimode fiber (MM) 62.5/125 μm	0 - 4000 m, 11 dB Link Budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 500 MHz x km
Network size - cascadibility	
Line - / star topology	any
Power requirements	
Operating voltage	2 x 12 to 24 VDC
Software	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port
	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dump
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); B00TP/DHCP Client with Auto-Configuration; DHCP
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logging
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
Ambient conditions	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	1000
Operating temperature	0 °C 60 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction	70 mm v 100 mm v 115 mm
Dimensions (W x H x D)	73 mm x 138 mm x 115 mm
Mounting	DIN Rail
Protection class	IP30





Industrial Ethernet/Compact configurable mana-	ged switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
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Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	2) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, EN61131, EN62368-1
Safety of industrial control equipment	cUL61010
Scope of delivery and accessories	
Scope of delivery	1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

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Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





## Product information BOBCAT - BRS20-4TX/2FX-SM

Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Delivery informations	managed industrial owners for Discharge, tast Editories 1300.
Availability	available
Product description	aranao
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Port type and quantity	6 Ports in total: 4x 10/100BASE TX / RJ45; 2x 100Mbit/s fiber; 1. Uplink: 1 x 100BASE-FX, SM-SC; 2. Uplink: 1 x 100BASE-FX, SM-SC
Туре	BRS20-4TX/2FX-SM
Order No.	942 170-005
More Interfaces	0.12 110 000
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	000-0
Twisted pair (TP)	0 m 100 m
Single mode fiber (SM) 9/125 µm	0 - 32.5 km, 16 dB Link Budget at 1300 nm, A = 0.4 dB/km, 3 dB reserve, D = 3.5 ps/(nm x km)
Network size - cascadibility	0 - 32.3 kili, 10 tib Link buuget at 1300 lilii, A = 0.4 tib/kili, 3 tib feseive, b = 3.3 ps (lilii x kili)
Line - / star topology	any
Power requirements	any
	2 x 12 to 24 VDC
Operating voltage	2 X 12 10 24 VIII
Software Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Persist
	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Pol
0.5	Mirroring 1:1; Port Mirroring 8:1; Port Mirror
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCl
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logo
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Tru
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	
Operating temperature	0 ℃ 60 ℃
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction	
Dimensions (W x H x D)	57 mm x 138 mm x 115 mm
Mounting	DIN Rail
Weight	420 g
Protection class	IP30
Housing material	Plastic





Industrial Ethernet-Compact configurable manage	ed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT	
https://catalog.beidensolutions.com:443/link/57078-2445	tttps://catalog.beldensolutions.com:443/link/57078-24455-49854-503664-503665/en/BRS20-0600S2S2-STCY99HHSES07.0./uistate	
Mechanical stability		
IEC 60068-2-27 shock	15 g, 11 ms duration	
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g	
EMC interference immunity		
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge	
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)	
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line	
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line	
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)	
EMC emitted immunity		
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A	
EN 55032	EN 55032 Class A	
Approvals		
Basis Standard	CE, FCC, EN61131, EN62368-1	
Safety of industrial control equipment	cUL61010	
Scope of delivery and accessories		
Scope of delivery	1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input	
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw	
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx	

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





## Product information BOBCAT - BRS20-8TX/2FX-SM

Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Delivery informations	
Availability	available
Product description	
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Port type and quantity	10 Ports in total: 8x 10/100BASE TX / RJ45; 2x 100Mbit/s fiber; 1. Uplink: 1 x 100BASE-FX, SM-SC; 2. Uplink: 1 x 100BASE-FX, SM-SC
Туре	BRS20-8TX/2FX-SM
Order No.	942 170-006
More Interfaces	
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Single mode fiber (SM) 9/125 µm	0 - 32.5 km, 16 dB Link Budget at 1300 nm, A = 0.4 dB/km, 3 dB reserve, D = 3.5 ps/(nm x km)
Network size - cascadibility	
Line - / star topology	any
Power requirements	120
Operating voltage	2 x 12 to 24 VDC
Software	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port
Diagnostico	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dum
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
Comiguration	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
Security	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Loggin
Dadundana, functions	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
The same board at the	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	0.00 0.00
Operating temperature	0 °C 60 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction	
Dimensions (W x H x D)	73 mm x 138 mm x 115 mm
Mounting	DIN Rail
Protection class	IP30
Housing material	Plastic
Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration
	45 a 44 and June Park





Industrial Ethernet:Compact configurable manage	d switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
https://catalog.beldensolutions.com:443/link/57078-24455-49854-503664-503665/en/BRS20-1000\$2\$2-STCY99HHSES07.0./uistate	
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, EN61131, EN62368-1
Safety of industrial control equipment	cUL61010
Scope of delivery and accessories	
Scope of delivery	1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





## Product information BOBCAT - BRS30-8TX/4SFP

ndustrial Ethernet:Compact configurable managed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT	
https://catalog.beldensolutions.com:443/link/57078-2445	55-49854-503664-503665/en/BRS30-08040000-STCY99HHSES07.0./uistate
Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet, Gigabit uplink type.
Delivery informations	
Availability	available
Product description	
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet, Gigabit uplink type.
Port type and quantity	12 Ports in total: 8x 10/100BASE TX / RJ45; 4x 100/1000Mbit/s fiber; 1. Uplink: 2 x SFP Slot (100/1000 Mbit/s); 2. Uplink: 2 x SFP Slot (100/1000 Mbit/s)
Туре	BRS30-8TX/4SFP
Order No.	942 170-007
More Interfaces	
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Multimode fiber (MM) 50/125 µm	see SFP fiber modules
Multimode fiber (MM) 62.5/125 μm	see SFP fiber modules
Single mode fiber (SM) 9/125 μm	see SFP fiber modules
Single mode fiber (LH) 9/125 µm (long haul transceiver)	see SFP fiber modules
Network size - cascadibility	
Line - / star topology	any
Power requirements	
Operating voltage	2 x 12 to 24 VDC
Software	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dump
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logging
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	
Operating temperature	0 ° C 60 ° C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction	
Dimensions (W x H x D)	73 mm x 138 mm x 115 mm
Mounting	DIN Rail





switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
9854-503664-503665/en/BRS30-08040000-STCY99HHSES07.0./uistate
570 g
IP30
Plastic
15 g, 11 ms duration
5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
6 kV contact discharge, 8 kV air discharge
10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
2 kV power line, 2 kV data line
power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
10 V (150 kHz-80 MHz)
FCC 47 CFR Part 15 Class A
EN 55032 Class A
CE, FCC, EN61131, EN62368-1
cUL61010
1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input
AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





# Product information BOBCAT - BRS40-8TX

https://catalog.beldensolutions.com:443/link/57078-244	55-49854-503664-503665/en/BR\$40-00089999-STCY99HHSE\$07.0./uistate
<u> </u>	
Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, All Gigabit type.
Delivery informations	
Availability	available
Product description	Managed Industrial Cuitab for DIN Dail for loss design All Conhibiture
Description	Managed Industrial Switch for DIN Rail, fanless design, All Gigabit type.
Port type and quantity	8 Ports in total: 8x 10/100/1000BASE TX / RJ45;
Type	BRS40-8TX
Order No.	942 170-008
More Interfaces	A undure in Asserting Month ( ) and
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	0.000
Twisted pair (TP)	0 m 100 m
Network size - cascadibility	Lan.
Line - / star topology	any
Power requirements	2 x 12 to 24 VDC
Operating voltage Software	2 X 12 10 24 VDC
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port
Diagnostics	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dump
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
Configuration	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
Security	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logging
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
neutricum victoris	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust
Ownering	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	morning, manapie 12 art neglectation recede (mmr), manapie mro neglectation recede (mmr)
Operating temperature	0 °C 60 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction	
Dimensions (W x H x D)	73 mm x 138 mm x 115 mm
Mounting	DIN Rail
Weight	500 g
Protection class	IP30
Housing material	Plastic
Mechanical stability	i idauc
moonumoar stability	





Industrial Ethernet:Compact configurable manage	d switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
https://catalog.beldensolutions.com:443/link/57078-24455-49854-503665/en/BR\$40-00089999-STCY99HHSES07.0./uistate	
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, EN61131, EN62368-1
Safety of industrial control equipment	cUL61010
Scope of delivery and accessories	
Scope of delivery	1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





## Product information BOBCAT - BRS40-8TX/4SFP

	ed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
https://catalog.beldensolutions.com:443/link/57078-244	55-49854-503664-503665/en/BRS40-00120000-STCY99HHSES07.0./uistate
Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, All Gigabit type.
Delivery informations	
Availability	available
Product description	
Description	Managed Industrial Switch for DIN Rail, fanless design, All Gigabit type.
Port type and quantity	12 Ports in total: 8x 10/100/1000BASE TX / RJ45; 4x 100/1000Mbit/s fiber; 1. Uplink: 2 x SFP Slot (100/1000 Mbit/s); 2. Uplink: 2 x SFP Slot (100/1000 Mbit/s); 2. Uplink: 2 x SFP Slot (100/1000 Mbit/s)
Туре	BRS40-8TX/4SFP
Order No.	942 170-009
More Interfaces	
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Multimode fiber (MM) 50/125 μm	see SFP fiber modules
Multimode fiber (MM) 62.5/125 μm	see SFP fiber modules
Single mode fiber (SM) 9/125 µm	see SFP fiber modules
Single mode fiber (LH) 9/125 µm (long haul	see SFP fiber modules
transceiver)	
Network size - cascadibility	
Line - / star topology	any
Power requirements	
Operating voltage	2 x 12 to 24 VDC
Software	_
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port
	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dump
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logging;
Deducation of two Name	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
The construction of the construction	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	THERTHY, MUNIQUE VENT NEGISTRATOR FLORED (MINNEY), MUNIQUE MAG NEGISTRATOR (MINNEY), MUNIQUE NEGISTRATOR (MINNEY)
Operating temperature	0 ℃ 60 ℃
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)  Mechanical construction	1 % 95 %
Dimensions (W x H x D)	73 mm x 138 mm x 115 mm
Mounting	DIN Rail
mounting	טווע וומוו





switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
9854-503664-503665/en/BRS40-00120000-STCY99HHSES07.0./uistate
570 g
IP30
Plastic
15 g, 11 ms duration
5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
6 kV contact discharge, 8 kV air discharge
10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
2 kV power line, 2 kV data line
power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
10 V (150 kHz-80 MHz)
FCC 47 CFR Part 15 Class A
EN 55032 Class A
CE, FCC, EN61131, EN62368-1
cUL61010
1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input
AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





## Product information BOBCAT - BRS50-8TX/4SFP

	ed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
https://catalog.beldensolutions.com:443/link/57078-2445	5-49854-503664-503665/en/BRS50-00122Q2Q-STCY99HHSES07.0./uistate
Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, All Gigabit type with 2.5 Gig uplinks
Delivery informations	),
Availability	available
Product description	
Description	Managed Industrial Switch for DIN Rail, fanless design, All Gigabit type with 2.5 Gig uplinks
Port type and quantity	12 Ports in total: 8x 10/100/1000BASE TX / RJ45; 4x 100/1000/2500Mbit/s fiber; 1. Uplink: 2 x SFP Slot (100/1000/2500 Mbit/s); 2. Uplink: 2 x SFP Slot
	(100/1000/2500 Mbit/s)
Туре	BRS50-8TX/4SFP
Order No.	942 170-010
More Interfaces	
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Multimode fiber (MM) 50/125 μm	see SFP fiber modules
Multimode fiber (MM) 62.5/125 μm	see SFP fiber modules
Single mode fiber (SM) 9/125 µm	see SFP fiber modules
Single mode fiber (LH) 9/125 µm (long haul	see SFP fiber modules
transceiver)	
Network size - cascadibility	
Line - / star topology	any
Power requirements	
Operating voltage	2 x 12 to 24 VDC
Software	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port
	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dump
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logging;
Badandan or for the	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
Ambient conditions	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions Operating temperature	0.00
Operating temperature	0 °C 60 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction  Dimensions (W x H x D)	73 mm x 138 mm x 115 mm





Later Committee	A STATE POPPAR N. A CONTROL OF
	d switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
https://catalog.beldensolutions.com:443/link/57078-24455	49854-503664-503665/en/BRS50-00122020-STCY99HHSES07.0./uistate
Mounting	DIN Rail
Weight	570 g
Protection class	IP30
Housing material	Plastic
Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, EN61131, EN62368-1
Safety of industrial control equipment	CUL61010
Scope of delivery and accessories	
Scope of delivery	$1 \times$ Device $1 \times$ General safety instructions $1 \times$ Terminal block for supply voltage and signal contact $1 \times$ Terminal block for the digital input
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





## Product information BOBCAT - BRS20-4TX-EEC

nttps://catalog.beldensolutions.com:443/link/5/0/8-244	55-49854-503664-503665/en/BRS20-04009999-TTCY99HHSES07.0./uistate
Name	BOBCAT
	Managed Industrial Cuitab for DIN Pail forload design East Ethornat Tuna
Delivery informations	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Availability	available
Product description	available
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Port type and quantity	4 Ports in total: 4x 10/100BASE TX / RJ45;
Type	BRS20-4TX-EEC
Order No.	942 170-011
More Interfaces	342 TO 011
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Network size - cascadibility	
Line - / star topology	any
Power requirements	
Operating voltage	2 x 12 to 24 VDC
Software	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port
	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dump
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Loggin
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.10/p); TOS/DSCP Prioritization; Interface Trust
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
Ambient condition	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	40.00 70.00
Operating temperature	-40 °C 70 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1% 95 %
Mechanical construction	57 mm x 138 mm x 115 mm
Dimensions (W x H x D)	
Mounting	DIN Rail
Weight	380 g
Protection class	IP30
Housing material	Plastic
Mechanical stability	At a 44 as Amilia
IEC 60068-2-27 shock	15 g, 11 ms duration





Industrial Ethernet:Compact configurable manage	d switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
https://catalog.beldensolutions.com:443/link/57078-24455-49854-503665/en/BR\$20-04009999-TTCY999HHSES07.0./uistate	
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, ENG1131, ENG2368-1
Safety of industrial control equipment	cUL61010
Scope of delivery and accessories	
Scope of delivery	1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





## Product information BOBCAT - BRS20-8TX-EEC

nttps://catalog.beidensolutions.com:443/iink/5/0/8-244	55-49854-503664-503665/en/BRS20-08009999-TTCY99HHSES07.0./uistate
Name	BOBCAT
	Managed Industrial Cuitoh for DIN Dail fonless design Foot Ethograph Tupo
Delivery informations	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Availability	available
Product description	uvunuoit
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Port type and quantity	8 Ports in total: 8x 10/100BASE TX / RJ45;
Type	BRS20-8TX-EEC
Order No.	942 170-012
More Interfaces	342 TO 612
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	See 5
Twisted pair (TP)	0 m 100 m
Network size - cascadibility	
Line - / star topology	any
Power requirements	
Operating voltage	2 x 12 to 24 VDC
Software	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port
	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dum
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Loggin
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.10/p); TOS/DSCP Prioritization; Interface Trust
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	40.00 70.00
Operating temperature	-40 °C 70 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1% 95 %
Mechanical construction	73 mm x 138 mm x 115 mm
Dimensions (W x H x D)	
Mounting	DIN Rail
Weight	500 g
Protection class	IP30
Housing material	Plastic
Mechanical stability	At a 44 as Amilia
IEC 60068-2-27 shock	15 g, 11 ms duration





Industrial Ethernet:Compact configurable manage	Industrial Ethernet:Compact configurable managed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT	
https://catalog.beldensolutions.com:443/link/57078-24455-49854-503665/en/BR\$20-08009999-TTCY99HHSES07.0./uistate		
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g	
EMC interference immunity		
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge	
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)	
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line	
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line	
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)	
EMC emitted immunity		
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A	
EN 55032	EN 55032 Class A	
Approvals		
Basis Standard	CE, FCC, ENG1131, ENG2368-1	
Safety of industrial control equipment	cUL61010	
Scope of delivery and accessories		
Scope of delivery	1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input	
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw	
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx	

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





# Product information BOBCAT - BRS20-4TX/2FX-EEC

https://catalog.beldensolutions.com:443/link/57078-2445/	5-49854-503664-503665/en/BRS20-0600M2M2-TTCY99HHSES07.0./uistate
Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Delivery informations	_
Availability	available
Product description	
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Port type and quantity	6 Ports in total: 4x 10/100BASE TX / RJ45; 2x 100Mbit/s fiber; 1. Uplink: 1 x 100BASE-FX, MM-SC; 2. Uplink: 1 x 100BASE-FX, MM-SC
Туре	BRS20-4TX/2FX-EEC
Order No.	942 170-013
More Interfaces	
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	
	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Multimode fiber (MM) 50/125 µm	0-5000 m, 8 dB Link Budget at 1300 nm, A=1 dB/km, 3 dB Reserve, B = 800 MHz x km
Multimode fiber (MM) 62.5/125 µm	0 - 4000 m, 11 dB Link Budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 500 MHz x km
Network size - cascadibility	
Line - / star topology	any
Power requirements	
Operating voltage	2 x 12 to 24 VDC
Software	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Po
Diagnostics	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dur
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Loggi
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
	<u> </u>
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trus
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	
Operating temperature	-40 °C 70 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction	
Dimensions (W x H x D)	57 mm x 138 mm x 115 mm
Mounting	DIN Rail
<del>_</del>	
Weight Protection class	420 g
	IP30





Industrial Ethernet:Compact configurable manag	jed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
https://catalog.beldensolutions.com:443/link/57078-244	55-49854-503664-503665/en/BRS20-0600M2M2-TTCY99HHSES07.0./uistate
Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, EN61131, EN62368-1
Safety of industrial control equipment	cUL61010
Scope of delivery and accessories	
Scope of delivery	$1 \times$ Device $1 \times$ General safety instructions $1 \times$ Terminal block for supply voltage and signal contact $1 \times$ Terminal block for the digital input
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





## **Product information BOBCAT - BRS20-8TX/2FX-EEC**

	5-49854-503664-503665/en/BRS20-1000M2M2-TTCY99HHSES07.0./uistate
Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Delivery informations	
Availability	available
Product description	'
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Port type and quantity	10 Ports in total: 8x 10/100BASE TX / RJ45; 2x 100Mbit/s fiber; 1. Uplink: 1 x 100BASE-FX, MM-SC; 2. Uplink: 1 x 100BASE-FX, MM-SC
Туре	BRS20-8TX/2FX-EEC
Order No.	942 170-014
More Interfaces	
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Multimode fiber (MM) 50/125 μm	0-5000 m, 8 dB Link Budget at 1300 nm, A=1 dB/km, 3 dB Reserve, B = 800 MHz x km
Multimode fiber (MM) 62.5/125 μm	0 - 4000 m, 11 dB Link Budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 500 MHz x km
Network size - cascadibility	
Line - / star topology	any
Power requirements	
Operating voltage	2 x 12 to 24 VDC
Software	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Po
	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dur
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Loggi
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trus
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	
Operating temperature	-40 °C 70 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction	
Dimensions (W x H x D)	73 mm x 138 mm x 115 mm
Mounting	DIN Rail





Industrial Ethernet:Compact configurable manage	ed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
	55-49854-503664-503665/en/BRS20-1000M2M2-TTCY99HHSES07.0./uistate
Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, EN61131, EN62368-1
Safety of industrial control equipment	cUL61010
Scope of delivery and accessories	
Scope of delivery	1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





# Product information BOBCAT - BRS20-4TX/2FX-SM-EEC

Industrial Ethernet:Compact configurable m	nanaged switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
https://catalog.beldensolutions.com:443/link/57076	8-24455-49854-503664-503665/en/BRS20-0600S2S2-TTCY99HHSES07.0./uistate
Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Delivery informations	managed industrial ement of shift tail, tailieue deetgif, tale Eulemer 1750.
Availability	available
Product description	
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
Port type and quantity	6 Ports in total: 4x 10/100BASE TX / RJ45; 2x 100Mbit/s fiber; 1. Uplink: 1 x 100BASE-FX, SM-SC; 2. Uplink: 1 x 100BASE-FX, SM-SC
Туре	BRS20-4TX/2FX-SM-EEC
Order No.	942 170-015
More Interfaces	342 110 010
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacemen	
Network size - length of cable	n   000 0
Twisted pair (TP)	0 m 100 m
Single mode fiber (SM) 9/125 µm	0 - 32.5 km, 16 dB Link Budget at 1300 nm, A = 0.4 dB/km, 3 dB reserve, D = 3.5 ps/(nm x km)
Network size - cascadibility	0 - 32.3 kili, 10 db Ellik bduget at 1300 lilli, A = 0.4 db/kili, 3 db leselve, b = 3.3 ps/(illi A kili)
Line - / star topology	any
Power requirements	any
Operating voltage	2 x 12 to 24 VDC
Software	2 X 12 10 24 400
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
	<u> </u>
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Po
	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
Configuration	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dur
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
Conwite	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Loggi
<b>D.</b> 1. 6. 11	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trus
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.10); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	
Operating temperature	-40 °C 70 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction	
Dimensions (W x H x D)	57 mm x 138 mm x 115 mm
Mounting	DIN Rail
Weight	420 g
Protection class	IP30
Housing material	Plastic





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Industrial Ethernet:Compact configurable managed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT		
https://catalog.beldensolutions.com:443/link/57078-24455-49854-503664-503665/en/BRS20-0600S2S2-TTCY99HHSES07.0./uistate		
Mechanical stability		
IEC 60068-2-27 shock	15 g, 11 ms duration	
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g	
EMC interference immunity		
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge	
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)	
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line	
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line	
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)	
EMC emitted immunity		
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A	
EN 55032	EN 55032 Class A	
Approvals		
Basis Standard	CE, FCC, EN61131, EN62368-1	
Safety of industrial control equipment	cUL61010	
Scope of delivery and accessories		
Scope of delivery	1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input	
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw	
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx	

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





# Product information BOBCAT - BRS20-8TX/2FX-SM-EEC

Idensolutions.com:443/link/57078-24455-49854	4-503664-503665/en/BRS20-1000S2S2-TTCY99HHSES07.0./uistate
Br	ORCAT
M	lanaged Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
nations	tanaged industrial owner for Dirt hair, famess design, t as element type.
	vailable
ption	
	lanaged Industrial Switch for DIN Rail, fanless design, Fast Ethernet Type.
	O Ports in total: 8x 10/100BASE TX / RJ45; 2x 100Mbit/s fiber; 1. Uplink: 1 x 100BASE-FX, SM-SC; 2. Uplink: 1 x 100BASE-FX, SM-SC
-	RS20-8TX/2FX-SM-EEC
	42 170-016
s	
	x plug-in terminal block, 2-pin
	x plug-in terminal block, 6-pin
	SB-C
length of cable	
	m 100 m
·	- 32.5 km, 16 dB Link Budget at 1300 nm, A = 0.4 dB/km, 3 dB reserve, D = 3.5 ps/(nm x km)
cascadibility	
pology	ny
nents	
nge 2	x 12 to 24 VDC
Di	ual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
M	lanagement Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Por
M	lonitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
M	lirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dun
Ai	utomatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
Se	erver: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
(C	CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
M	IAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
As	ssignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
M	lanagement; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Loggir
M	lultiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
nctions H	IPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
Re	edundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
isation Bi	uffered Real Time Clock, SNTP Client, SNTP Server
Di	igital IO Management; Manual Cable Crossing; Port Power Down
In	dependent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust
l l	lode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
Re	egistration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
	itering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
tions	
	40 °C 70 °C
•	
- '	% 95 %
nstruction	
	IN Rail
s IP	30
	lastic
bility	
7 shock 15	5 g, 11 ms duration
1	3 mm x 138 mm x 115 mm IN Rail P30 lastic





Industrial Ethernet:Compact configurable managed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT	
https://catalog.beldensolutions.com:443/link/57078-24455-49854-503664-503665/en/BRS20-1000S2S2-TTCY99HHSES07.0./uistate	
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, EN61131, EN62368-1
Safety of industrial control equipment	cUL61010
Scope of delivery and accessories	
Scope of delivery	1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





## Product information BOBCAT - BRS30-8TX/4SFP-EEC

ndustrial Ethernet:Compact configurable managed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT		
https://catalog.beldensolutions.com:443/link/57078-244	55-49854-503664-503665/en/BRS30-08040000-TTCY99HHSES07.0./uistate	
Name	BOBCAT	
Polices informations	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet, Gigabit uplink type.	
Delivery informations	available	
Availability	available	
Product description	Managed Industrial Cuitab for DIN Dail fooless design. East Ethornet. Cigobit unlink ture	
Description	Managed Industrial Switch for DIN Rail, fanless design, Fast Ethernet, Gigabit uplink type.	
Port type and quantity	12 Ports in total: 8x 10/100BASE TX / RJ45; 4x 100/1000Mbit/s fiber; 1. Uplink: 2 x SFP Slot (100/1000 Mbit/s); 2. Uplink: 2 x SFP Slot (100/1000 Mbit/s)  BRS30-8TX/4SFP-EEC	
Type		
Order No.	942 170-017	
More Interfaces Digital Input	1 v plus in terminal block 2 pin	
	1 x plug-in terminal block, 2-pin	
Power supply/signaling contact	1 x plug-in terminal block, 6-pin	
Local Management and Device Replacement  Network size - length of cable	USB-C	
•	0 m 100 m	
Twisted pair (TP) Multimode fiber (MM) 50/125 µm	see SFP fiber modules	
Multimode fiber (MM) 62.5/125 µm	see SFP fiber modules	
Single mode fiber (SM) 9/125 µm	see SFP fiber modules	
<u>` ` ` ` `                              </u>	see SFP fiber modules	
Single mode fiber (LH) 9/125 µm (long haul transceiver)	See SEE THUR! Housiles	
Network size - cascadibility		
Line - / star topology	any	
Power requirements		
Operating voltage	2 x 12 to 24 VDC	
Software		
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet	
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port	
	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port	
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dump	
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP	
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface	
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help	
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN	
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate	
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logging	
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;	
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);	
The same should be the	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards	
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server	
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down	
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust	
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN	
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast	
Ambient conditions	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)	
Operating temperature	-40 °C 70 °C	
Storage/transport temperature		
Relative humidity (non-condensing)	1 % 95 %	
Mechanical construction  Dimensions (W v H v D)	73 mm x 138 mm x 115 mm	
Dimensions (W x H x D)	73 IIIII X 138 IIIII X 115 IIIII  DIN Rail	
Mounting	עווע חמוו	





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	d switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT	
https://catalog.beldensolutions.com:443/link/57078-24455-49854-503664-503665/en/BRS30-08040000-TTCY99HHSES07.0./uistate		
Weight	570 g	
Protection class	IP30	
Housing material	Plastic	
Mechanical stability		
IEC 60068-2-27 shock	15 g, 11 ms duration	
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g	
EMC interference immunity		
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge	
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)	
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line	
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line	
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)	
EMC emitted immunity		
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A	
EN 55032	EN 55032 Class A	
Approvals		
Basis Standard	CE, FCC, EN61131, EN62368-1	
Safety of industrial control equipment	cUL61010	
Scope of delivery and accessories		
Scope of delivery	$1 \times \text{Device } 1 \times \text{General safety instructions } 1 \times \text{Terminal block for supply voltage and signal contact } 1 \times \text{Terminal block for the digital input}$	
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw	
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx	

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





# Product information BOBCAT - BRS40-8TX-EEC

nttps://catalog.beidensolutions.com:443/iink/5/0/8-244	55-49854-503664-503665/en/BRS40-00089999-TTCY99HHSES07.0./uistate
Name	BOBCAT
	Managad Industrial Cuitah for DIN Pail fonloss design All Cignhithus
Delivery informations	Managed Industrial Switch for DIN Rail, fanless design, All Gigabit type.
Availability	available
Product description	available
Description	Managed Industrial Switch for DIN Rail, fanless design, All Gigabit type.
Port type and quantity	8 Ports in total: 8x 10/100/1000BASE TX / RJ45;
Type	BRS40-8TX-EEC
Order No.	942 170-018
More Interfaces	342 170 010
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Network size - cascadibility	
Line - / star topology	any
Power requirements	
Operating voltage	2 x 12 to 24 VDC
Software	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port
	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dum
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Loggin
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	40.00 70.00
Operating temperature	-40 °C 70 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction	73 mm x 138 mm x 115 mm
Dimensions (W x H x D)	
Mounting	DIN Rail
Weight	500 g
Protection class	IP30
Housing material	Plastic
Mechanical stability	At a 44 as Amilia
IEC 60068-2-27 shock	15 g, 11 ms duration





Industrial Ethernet Compact configurable manage	and auditabas DODCAT. Next Consection Compact Managed Cuitaby DODCAT
Industrial Ethernet:Compact configurable managed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT	
https://catalog.beldensolutions.com:443/link/57078-24455-49854-503664-503665/en/BRS40-00089999-TTCY99HHSES07.0./uistate	
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, EN61131, EN62368-1
Safety of industrial control equipment	cUL61010
Scope of delivery and accessories	
Scope of delivery	1 × Device 1 × General safety instructions 1 × Terminal block for supply voltage and signal contact 1 × Terminal block for the digital input
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





## Product information BOBCAT - BRS40-8TX/4SFP-EEC

	ed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT 5-49854-503664-503665/en/BRS40-00120000-TTCY99HHSES07.0./uistate
Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, All Gigabit type.
Delivery informations	
Availability	available
Product description	
Description	Managed Industrial Switch for DIN Rail, fanless design, All Gigabit type.
Port type and quantity	12 Ports in total: 8x 10/100/1000BASE TX / RJ45; 4x 100/1000Mbit/s fiber; 1. Uplink: 2 x SFP Slot (100/1000 Mbit/s); 2. Uplink: 2 x SFP Slot (100/1000 Mbi
Туре	BRS40-8TX/4SFP-EEC
Order No.	942 170-019
More Interfaces	
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Multimode fiber (MM) 50/125 µm	see SFP fiber modules
Multimode fiber (MM) 62.5/125 μm	see SFP fiber modules
Single mode fiber (SM) 9/125 µm	see SFP fiber modules
Single mode fiber (LH) 9/125 µm (long haul	see SFP fiber modules
. , ,	See SET IIIEI IIIUUUES
transceiver)	
Network size - cascadibility	Loui
Line - / star topology	any
Power requirements	1 au 10 to 04 VPC
Operating voltage	2 x 12 to 24 VDC
Software	Dual Cofficient James Consists TETD, CETD, CETD, CED, LIDD (2001AB), LIDD MED, CELLO, LITTO, LITTO, Toron, CNMD of 60 for Talent
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dump
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface (CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logging Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2); Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust
<b>g</b>	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	
Operating temperature	-40 °C 70 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction	
Dimensions (W x H x D)	73 mm x 138 mm x 115 mm
Mounting	DIN Rail





Industrial Ethernet:Compact configurable managed	I switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
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Weight	570 g
Protection class	IP30
Housing material	Plastic
Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, EN61131, EN62368-1
Safety of industrial control equipment	CUL61010
Scope of delivery and accessories	
Scope of delivery	$1 \times \text{Device } 1 \times \text{General safety instructions } 1 \times \text{Terminal block for supply voltage and signal contact } 1 \times \text{Terminal block for the digital input}$
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

Hirschmann Automation and Control GmbH

Stuttgarter Strasse 45-51 72654 Neckartenzlingen Germany

Phone: +49 7127/14-1809 E-Mail: inet-sales@belden.com





## Product information BOBCAT - BRS50-8TX/4SFP-EEC

	ed switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
https://catalog.beldensolutions.com:443/link/57078-2445	5-49854-503664-503665/en/BRS50-00122Q2Q-TTCY99HHSES07.0./ulstate
Name	BOBCAT
	Managed Industrial Switch for DIN Rail, fanless design, All Gigabit type with 2.5 Gig uplinks
Delivery informations	
Availability	available
Product description	'
Description	Managed Industrial Switch for DIN Rail, fanless design, All Gigabit type with 2.5 Gig uplinks
Port type and quantity	12 Ports in total: 8x 10/100/1000BASE TX / RJ45; 4x 100/1000/2500Mbit/s fiber; 1. Uplink: 2 x SFP Slot (100/1000/2500 Mbit/s); 2. Uplink: 2 x SFP Slot
	(100/1000/2500 Mbit/s)
Туре	BRS50-8TX/4SFP-EEC
Order No.	942 170-020
More Interfaces	
Digital Input	1 x plug-in terminal block, 2-pin
Power supply/signaling contact	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement	USB-C
Network size - length of cable	
Twisted pair (TP)	0 m 100 m
Multimode fiber (MM) 50/125 μm	see SFP fiber modules
Multimode fiber (MM) 62.5/125 µm	see SFP fiber modules
Single mode fiber (SM) 9/125 µm	see SFP fiber modules
Single mode fiber (LH) 9/125 µm (long haul	see SFP fiber modules
transceiver)	
Network size - cascadibility	
Line - / star topology	any
Power requirements	
Operating voltage	2 x 12 to 24 VDC
Software	
Management	Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Port
	Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port
	Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; System Information; Self-Tests on Cold Start; SFP Management; Configuration Check Dialog; Switch Dump
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP
	Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA22-USB-C; HiDiscovery; DHCP Relay with Option 82; Command Line Interface
	(CLI); CLI Scripting; Full-featured MIB Support; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN
	Assignment; Denial-of-Service Prevention; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate
	Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logging;
	Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking;
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2);
	Redundant Network Coupling; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	Buffered Real Time Clock, SNTP Client, SNTP Server
Miscellaneous	Digital IO Management; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust
	Mode; CoS Queue Management; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); GARP VLAN
	Registration Protocol (GVRP); Voice VLAN; GARP Multicast Registration Protocol (GMRP); IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast
Australians and disconn	Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)
Ambient conditions	40.00 70.00
Operating temperature	-40 °C 70 °C
Storage/transport temperature	-40 °C 70 °C
Relative humidity (non-condensing)	1 % 95 %
Mechanical construction	70 400 445
Dimensions (W x H x D)	73 mm x 138 mm x 115 mm





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	d switches:BOBCAT - Next Generation Compact Managed Switch:BOBCAT
https://catalog.beldensolutions.com:443/link/57078-24455	-49854-503664-503665/en/BRS50-0012202Q-TTCY99HHSES07.0./uistate
Mounting	DIN Rail
Weight	570 g
Protection class	IP30
Housing material	Plastic
Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration
IEC 60068-2-6 vibration	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line
EN 61000-4-6 conducted immunity	10 V (150 kHz-80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55032	EN 55032 Class A
Approvals	
Basis Standard	CE, FCC, EN61131, EN62368-1
Safety of industrial control equipment	cUL61010
Scope of delivery and accessories	
Scope of delivery	$1 \times$ Device $1 \times$ General safety instructions $1 \times$ Terminal block for supply voltage and signal contact $1 \times$ Terminal block for the digital input
Accessories to order separately	AutoConfiguration Adapter ACA22-USB-C (EEC) 942-239-001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw
	lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx

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