Product information
BOBCAT - BRS20-4TX

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	
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;
Type	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); 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 ℃ ... 70 ℃
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	380 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 × 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

For more information please contact:

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Product information
BOBCAT - BRS20-8TX

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/BRS20-08009999-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;
Type	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 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 ºC ... 60 ºC
Storage/transport temperature	-40 ºC ... 70 ºC
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

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

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Product information
BOBCAT - BRS20-4TX/2FX

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/BRS20-0600M2M2-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
Type	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	
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 ºC ... 60 ºC
Storage/transport temperature	-40 ºC ... 70 ºC
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

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

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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/BRS20-1000M2M2-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
Type	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); 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 ºC ... 60 ºC
Storage/transport temperature	-40 ºC ... 70 ºC
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
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

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

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-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, SM-SC; 2. Uplink: 1 x 100BASE-FX, SM-SC
Type	BRS20-4TX/2FX-SM
Order No.	942 170-005
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	
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 ℃ ... 60 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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

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

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

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-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, SM-SC; 2. Uplink: 1 x 100BASE-FX, SM-SC
Type	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	
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 ℃ ... 60 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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

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

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The information published in the websites has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price-related/commercial respect.
The complete information and data were available on user documentation. Mandatory information can only be obtained by a concrete query.

Product information
BOBCAT - BRS30-8TX/4SFP

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/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)
Type	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 ℃ ... 60 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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	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 × 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

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Product information
BOBCAT - BRS40-8TX

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-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	8 Ports in total: 8x 10/100/1000BASE TX / RJ45;
Type	BRS40-8TX
Order No.	942 170-008
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); 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 ℃ ... 70 ℃
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	
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

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Product information
BOBCAT - BRS40-8TX/4SFP

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/BRS40-00120000-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)
Type	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 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 ℃ ... 60 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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	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 × 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

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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/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)
Type	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 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 ºC ... 60 ºC
Storage/transport temperature	-40 ºC ... 70 ºC
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	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 × 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

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Product information
BOBCAT - BRS20-4TX-EEC

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-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	4 Ports in total: 4x 10/100BASE TX / RJ45;
Type	BRS20-4TX-EEC
Order No.	942 170-011
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); 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	-40 ℃ ... 70 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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	380 g
Protection class	IP30
Housing material	Plastic
Mechanical stability	
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-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

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The information published in the websites has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price-related/commercial respect.

The complete information and data were available on user documentation. Mandatory information can only be obtained by a concrete query.

Product information
BOBCAT - BRS20-8TX-EEC

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/BRS20-08009999-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	8 Ports in total: 8x 10/100BASE TX / RJ45;
Type	BRS20-8TX-EEC
Order No.	942 170-012
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); 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	-40 ℃ ... 70 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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	
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

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

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/BRS20-0600M2M2-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
Type	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; 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	-40 ℃ ... 70 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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

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

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

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/BRS20-1000M2M2-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
Type	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; 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	-40 ℃ ... 70 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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
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

For more information please contact:

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The information published in the websites has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price-related/commercial respect.

The complete information and data were available on user documentation. Mandatory information can only be obtained by a concrete query.

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

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	
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, SM-SC; 2. Uplink: 1 x 100BASE-FX, SM-SC
Type	BRS20-4TX/2FX-SM-EEC
Order No.	942 170-015
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	
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	-40 ℃ ... 70 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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

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

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

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	
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
Type	BRS20-8TX/2FX-SM-EEC
Order No.	942 170-016
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	
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	-40 ℃ ... 70 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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

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

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

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/BRS30-08040000-TTCY99HHSES07.0./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)
Type	BRS30-8TX/4SFP-EEC
Order No.	942 170-017
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	-40 ℃ ... 70 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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	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 × 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

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	
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	8 Ports in total: 8x 10/100/1000BASE TX / RJ45;
Type	BRS40-8TX-EEC
Order No.	942 170-018
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); 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	-40 ℃ ... 70 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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	
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/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

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

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/BRS40-00120000-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 Mbit/s)
Type	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 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	-40 ℃ ... 70 ℃
Storage/transport temperature	-40 ℃ ... 70 ℃
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	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 × 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

For more information please contact:

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

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/BRS50-00122Q2Q-TTCY99HHSES07.0./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)
Type	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 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
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