

IMG-1312-D

Industrial 802.11 b/g 3.5G VPN Router with 1 Ports RS-232/422/485 & 4 DI/DO Gateway

Highlights

- Provide 2 x 10 / 100 Base –T(X) port and SIM card slot
- 3.5G HSUDPA modem included
- Support Open VPN, PPTP VPN
- High Speed Air Connectivity: WLAN interface support up to 54Mbps link speed
- Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/WPA2 / WPA2-PSK (TKIP, AES) / 802.1x / Radius supported
- Versatile modes & event alarm by e-mail.
- Event warning by Syslog, Email, SNMP Trap, Relay output
- Redundant multiple host devices:
 - 5 host devices: Virtual COM, TCP Server, TCP Client mode;
 - 4 IP ranges: UDP
- > 4 digital inputs and 4 digital output
- 12~48VDC power input on M12 connector.
- Rugged IP-40 casing design



Introduction

IMG-1312-D is an innovative 1 port RS232/422/485 and IEEE802.11 b/g WLAN Access Point VPN gateway with 2 ports 10/100Base-T(X) ports. It could be configured to connect to the internet by dialing up 3.5G cellular modem to fulfill demands of various applications rapidly and construct the WLAN environment. IMG-1312-D is also equipped with four 5V TTL Digital Inputs and four Digital Outputs for general purpose of demand. In addition, IMG-1312-D can also transfer SSL encryption data into 5 host PCs simultaneously for backup purposes. Therefore, IMG-1312-D is one of the best solutions for applications of wireless and serial communication.

Application

IMG-1312-D, it supports 3.5G HSUPA Modem dial up. The utility- M2M-Tool which is used to manage and monitor all of the serial ports on IMG-1312-D.



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Monitoring and Configuration interface

Specifications

ORing M2M Model	IMG-1312-D					
Physical Ports						
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX	2					
SIM card slot	1					
Cellular interface						
Cellular Standard	GSM / GPRS / EGPRS / EDGE / WCDMA / HSDPA / HSUPA					
Band options	Dual band : HSUDPA 1900 / 2100 MHz Quad band : GSM / GPRS / EDGE 850 / 900 / 1800 / 1900 MHz / WCDMA / HSDPA 850 / 900 / 1900 / 2100MHz					
Antenna Connector	Reverse SMA connector x1					
Antenna	GSM/DCS/UMT 3G antenna x1					
WLAN Feature						
Antenna Connector	Reverse SMA connector x1					
Antenna	2.4GHz Wi-Fi ANT x1					
Radio Frequency Type	DSSS					
Modulation	IEEE802.11b: CCK, DQPSK, DBPSK IEEE802.11g: OFDM with BPSK, QPSK, 16QAM, 64QAM					
Frequency Band	America/FCC: 2.412~2.462 GHz (11 channels) Europe CE/ETSI: 2.412~2.472 GHz (13 channels)					
Transmission Rate	IEEE802.11b: 1/ 2/ 5.5/ 11 Mbps IEEE802.11g: 6/ 9/ 12/ 18/ 24/ 36/ 48/ 54 Mbps					
Transmit Power	IEEE802.11b/g: 18dBm					
Receiver Sensitivity	-81dBm @ 11Mbps, PER< 8% -64dBm @ 54Mbps, PER< 10%					
Encryption Security	WEP: (64-bit ,128-bit key supported) WPA: WPA2 : 802.11i(WEP and AES encryption) WPAPSK (256-bit key pre-shared key supported)					

Safety	EN60950-1				
Vibration	IEC60068-2-6				
Free Fall	IEC60068-2-32				
Shock	IEC60068-2-27				
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11				
EMI	FCC Part 15, CISPR (EN55022) class A				
Regulatory Approvals					
Operating Humidity	5% to 95% Non-condensing				
Operating Temperature	-10 to 60°C (14 to 140°F)				
Storage Temperature	-40 to 85°C (-40 to 185°F)				
Environmental					
Weight (g)	TBD				
Dimension (W x D x H)	TBD				
Enclosure	IP-30				
Physical Characteristic					
Reverse polarity protection	Present				
Overload current protection	Present				
Power consumption (Typ.)	6.5 Watts				
Power Input	Dual DC inputs. 12-48VDC on 6-pin terminal block				
Power					
WLAN indicator	WLAN Link /ACT: Green: Link				
10/100TX RJ45 port indicator	Green for port Link/Act.				
Power indicator	Green On: Power is on and functioning Normally.				
LED Indicators	Power output voltage: 5V TTL				
Digital output	4 digital outputs on terminal block.				
	Power input voltage: 5V TTL				
Digital input	4 digital inputs on terminal block.				
Digital Input / output					
	RS-485 (4W): TX+, TX-, RX+, RX-, GND				
Serial signals	RS-422 : TX+, TX-, RX+, RX-, GND RS-485 (2W): D+, D-, GND				
	RS-232 : TxD, RxD, DCD, RTS, CTS, DSR, DTR, RI, GND				
Stop Bits	1, 1.5, 2				
Parity	odd, even, none, mark, space				
Data Bits	5, 6, 7, 8				
Serial Baud Rate	110 bps to 460.8 Kbps				
Operation Mode	RS-232/RS-422/RS-485(2W/4W). Which can be configured by utility				
Connector	DB9 male x 1				
Serial Ports					
Wireless Security	TKIP encryption SSID broadcast disable				
	TKIP encryption				

Ordering Information

Code Definition	on WLAN Identification	Serial Port Type	Serial Port Number	Ethernet Port Number					
Option	- 1: IEEE802.11 b/g mode - 2: IEEE802.11 a mode - 3: IEEE802.11 a/b/g mode	- 1: RS-232 only - 2: RS-422/485 only - 3: Support RS-232/422/485	- 1: 1 port	- 2: 2 port					
	Model Name	Description							
Available Model	MG-1312-D_US	Industrial 802.11 b/g 3.5G VPN Router with 1 Ports RS-232/422/485 & 4 DI/DO Gateway, US band							
	MG-1312-D_EU	Industrial 802.11 b/g 3.5G VPN Router with 1 Ports RS-232/422/485 & 4 DI/DO Gateway, EU band							