


WI-MOD-9-E
Ethernet 900MHz

WI-MOD-945-E
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Technical Data			
Description: Ethernet		10/100 BaseT RJ45, IEEE 802.3 compliant. Bridge/router functions work with all Ethernet protocols	10/100 BaseT RJ45, IEEE 802.3 compliant. Bridge/router functions work with all Ethernet protocols
Embedded Protocols:		TCP/IP, UDP ARP, PPP, ICMP, HTTP, FTP, TFTP, TELNET	TCP/IP, UDP ARP, PPP, ICMP, HTTP, FTP, TFTP, TELNET, SNMP, RADIUS/802.1X, DHCP
Serial			
RS232 V.24 DCE		1.2 to 115.2 Kb/s	1.2 to 230.4 Kb/s
RS485		1.2 to 115.2 Kb/s	1.2 to 230.4 Kb/s
		Serial server, PPP, Modbus to Modbus TCP conversion	Serial server, PPP, Modbus to Modbus TCP conversion
Discrete I/O			
Input		One I/O channel	One I/O channel
Output		Voltage-free contact	Voltage-free contact
		FET 30VDC 500mA	FET 30VDC 500mA
Networking			
		Configurable as Access Point or Client, Bridge or Router Point-to-point, Point-to-multipoint, user configurable addressing Repeater functionality MAC Filtering - whitelist or blacklist	Configurable as Access Point or Client, Bridge or Router Point-to-point, Point-to-multipoint, user configurable addressing Repeater functionality MAC Filtering - whitelist or blacklist IP Filtering - whitelist or blacklist ARP Filtering - whitelist or blacklist
General Data			
Operating Temperature		-40 to 60°C (-40 to 140°F)	-40 to 60°C (-40 to 140°F)
Humidity		99% non-condensing	99% non-condensing
Power Supply		10 – 30VDC	10 – 30VDC
Current consumption		280mA (12V), 150mA (24V)	Idle: 12V - 270mA; 24V - 140mA
Transmit		(1W) 500mA (12V), 300mA (24V)	(630mW) 12V - 470mA, (630mW) 24V - 250mA
Approvals		FCC 15.247, RS210, Hazardous area Class 1 Div 2	FCC 15.247, RS210, Hazardous area Class 1 Div 2 pending
Mounting		DIN rail mounting	DIN rail mounting
LED indication		Power/OK, Radio Rx and Tx, Radio Link, LAN Link/Activity, Serial Activity, Digital I/O, LAN 10/100Mbit Link	Power/OK, Radio Rx and Tx, Radio Link, LAN Link/Activity, Serial Activity, Digital I/O, LAN 10/100Mbit Link
Dimensions mm (in)		115 x 141 x 32 (4.5 x 5.55 x 1.4)	114 x 168 x 30 (4.5 x 6.7 x 1.2)
Weight		< 0.4 kg / 0.8 lb	< 0.4 kg / 0.8 lb
Radio Transceiver			
Frequency - USA/Canada		Frequency Hopping Spread Spectrum 902 - 928 MHz	Direct Sequence Spread Spectrum 902 - 928 MHz
Hop Channel Spacing		16 x 50	1 - 24Mbps @ 630mW (28dBm)
Transmit Power		0.1 – 1W (20 – 30 dBm) configurable	54Mbps @ 250mW (24dBm) configurable
Receiver sensitivity		-108 dBm @ 10-6 BER	-95dBm @ 1Mbps; -72dBm @ 54Mbps
Data rates		19.2, 57.6, 115.2, 230 Kb/s or auto rate selection	19.2, 57.6, 115.2, 230 Kb/s or auto rate selection
Protocol		CSMA/CA with 32 bit CRC and auto-correction	CSMA/CA with 32 bit CRC and auto-correction
Radio range		up to 60 miles / 100 km line-of-sight using high gain antennas (*up to 4W ERP permitted in USA/Canada) Range may be extended using repeater features	LOS (Line of Sight) 6+ miles/10km @ 630mW (*up to 4W ERP permitted in USA/Canada) Range may be extended using repeater features
Antenna connection		SMA female coaxial	2x Female SMA
Security			
		128 bit AES encryption or 64 bit proprietary encryption (configurable) MAC filtering Password protected configuration	WPA PSK - 80211i - 802.1x MAC Filtering; IP Filtering; ARP Filtering Password protected configuration
Configuration		HTTP with remote configuration via wireless link	HTTP with remote configuration via wireless link
Diagnostics		RSSI, channel noise, BER, connection monitoring and statistics	RSSI, channel noise, BER, connection monitoring and statistics
Ordering Data		Type	Part No.
		WI-MOD-9-E	6720005051
		Type	Part No.
		WI-MOD-945-E	6720005015