



WI-MOD-9-E
Ethernet 900MHz



WI-MOD-945-E
Ethernet 900MHz



Technical Data

Description: Ethernet

Embedded Protocols:

Serial
RS232 V.24 DCE
RS485

Discrete I/O
Input
Output

Networking

General Data

Operating Temperature
Humidity
Power Supply
Current consumption
Transmit
Approvals
Mounting
LED indication

Dimensions mm (in)

Weight

Radio Transceiver
Frequency - USA/Canada
Hop Channel Spacing
Transmit Power

Receiver sensitivity
Data rates
Protocol
Radio range

Antenna connection

Security

Configuration

Diagnostics

Ordering Data

10/100 BaseT RJ45, IEEE 802.3 compliant.
Bridge/router functions work with all Ethernet protocols

TCP/IP, UDP ARP, PPP, ICMP, HTTP, FTP, TFTP, TELNET

1.2 to 115.2 Kb/s
1.2 to 115.2 Kb/s
Serial server, PPP, Modbus to Modbus TCP conversion

One I/O channel
Voltage-free contact
FET 30VDC 500mA

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

-40 to 60°C (-40 to 140°F)
99% non-condensing
10 – 30VDC
280mA (12V), 150mA (24V)
(1W) 500mA (12V), 300mA (24V)
FCC 15.247, RS210,
Hazardous area Class 1 Div 2

DIN rail mounting
Power/OK, Radio Rx and Tx, Radio Link, LAN Link/Activity,
Serial Activity, Digital I/O, LAN 10/100Mbit Link

115 x 141 x 32 (4.5 x 5.55 x 1.4)
< 0.4 kg / 0.8 lb

Frequency Hopping Spread Spectrum
902 - 928 MHz
16 x 50
0.1 – 1W (20 – 30 dBm) configurable

-108 dBm @ 10-6 BER
19.2, 57.6, 115.2, 230 Kb/s or auto rate selection
CSMA/CA with 32 bit CRC and auto-correction
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

SMA female coaxial
128 bit AES encryption or
64 bit proprietary encryption (configurable)
MAC filtering
Password protected configuration

HTTP with remote configuration via wireless link

RSSI, channel noise, BER, connection monitoring and statistics

Type Part No.
WI-MOD-9-E 6720005051

10/100 BaseT RJ45, IEEE 802.3 compliant.
Bridge/router functions work with all Ethernet protocols

TCP/IP, UDP ARP, PPP, ICMP, HTTP, FTP, TFTP, TELNET,
SNMP, RADIUS/802.1X, DHCP

1.2 to 230.4 Kb/s
1.2 to 230.4 Kb/s
Serial server, PPP, Modbus to Modbus TCP conversion

One I/O channel
Voltage-free contact
FET 30VDC 500mA

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

-40 to 60°C (-40 to 140°F)
99% non-condensing
10 – 30VDC
Idle: 12V - 270mA; 24V - 140mA
(630mW) 12V - 470mA, (630mW) 24V - 250mA
FCC 15.247, RS210,
Hazardous area Class 1 Div 2, IEC 60950

DIN rail mounting
Power/OK, Radio Rx and Tx, Radio Link, LAN Link/Activity,
Serial Activity, Digital I/O, LAN 10/100Mbit Link

114 x 168 x 30 (4.5 x 6.7 x 1.2)
< 0.4 kg / 0.8 lb

Direct Sequence Spread Spectrum
902 - 928 MHz
N/A
1 - 24Mbps @ 630mW (28dBm)
54Mbps @ 250mW (24dBm) configurable

-95dBm @ 1Mbps; -72dBm @ 54Mbps
19.2, 57.6, 115.2, 230 Kb/s or auto rate selection
CSMA/CA with 32 bit CRC and auto-correction
LOS (Line of Sight) 6+ miles/10km @ 630mW
(*up to 4W ERP permitted in USA/Canada)
Range may be extended using repeater features

2x Female SMA
WPA PSK - 80211i - 802.1x
MAC Filtering; IP Filtering; ARP Filtering
Password protected configuration

HTTP with remote configuration via wireless link

RSSI, channel noise, BER, connection monitoring and statistics

Type Part No.
WI-MOD-945-E 6720005015