

WLAN Ethernet Port Adapter



Product Brief WLAN 5GHz Ethernet Port Adapter RWE241i

The connectBlue rugged WLAN Ethernet Port Adapter RWE241i is especially well-suited for mobile, rotating and temporary installations where there is a need for replacing the Ethernet cable with a robust and maintenance-free wireless connection, or to connect to an WLAN infrastructure. The device supports 802.11an for best connectivity and throughput using the 5GHz band. Further, the product is called "Intelligent antenna™" thanks to the ease of use and cost efficiency of the installation and configuration. The Wireless Ethernet Port Adapter is part of the connectBlue product range of Wireless Products in industrial housings and versions with 2.4GHz WLAN 802.11 b, g, n, Dual-band WLAN 802.11 a, b, g, n and Bluetooth also exist.

- WLAN 802.11 a, n technology (5GHz)

- Ethernet interface 10/100Base-T
- Built in antenna with an unique half globe radio coverage pattern making installation easy and cost efficient
- Easy configuration either via "button-push" method or via Web configuration pages
- Supports WEP64, WEP128, WPA-PSK, WPA2-PSK, TKIP, CCMP (AES), LEAP, PEAP
- Radio type approved for Europe, US and Canada
- UL/cUL Class 1 Div 2 Hazardous location certified
- DHCP server and client
- Configurable to optimize for Profinet
- IP65-classed housing with integrated antenna
- Industrial temperature range -40 to +65°C
- Small form factor, 91x66x36 mm

Technical Data - WLAN 5GHz Ethernet Port Adapter RWE241i

Wireless Standard

Wireless LAN / WLAN

Standard Specification

Conforms to 802.11 a, n standard

Radio

Approximate max range: 200m
Max output power including antenna: 11dBm
5 GHz channels: 36-48, 52-140 (U-NII Band 1, 2, 2e)

Type Approvals

Europe (R&TTE)
US (FCC/CFR 47 part 15 unlicensed modular transmitter approval)
Canada (IC)
Hazardous location UL/cUL Class 1 Div 2

Interface

Ethernet Interface: 10/100BASE-T with automatic MDI/MDIX cross-over
External Input/Output: 9-30 V I/O pin to trigger configurable event, e.g. roaming

Features

Configurable via AT commands
Simple, push the button method & Web based configuration
IP
TCP
UDP
LLDP
HTTP
ARP
DHCP Client / Server
DNS support
SNMP
User management and access control
Profinet optimizations
Maximum number of slaves: 1 (point-to-point)

Security:

- WEP64
- WEP128
- WPA-PSK
- WPA2-PSK
- TKIP
- CCMP (AES)
- LEAP
- PEAP

Operational modes:

- Managed / Infrastructure (BSS)
- Unmanaged / Ad-hoc (IBSS)

Use cases:

- Wireless Ethernet Bridge
- Wireless LAN Client
- Seamless roaming
- Roaming sequence list
- Redundancy

Power

Power supply voltage: 9 - 30 VDC
Current consumption (minimum): 47 mA @30V
Current consumption (average Tx): 59 mA @30V

Connectors

M12 connector for power supply and external trigger
M12 connector for Ethernet

Mechanical

Operating temperature: -40°C to +65°C
Mounting holes
Housing: Plastic, IP65
Dimensions: 91x66x36.2 mm

Certifications and Compliance

R&TTE Directive 1999/5/EC:

- Effective use of frequency spectrum: EN 300 328, EN 301 893
- EMC: EN 61000-6-2, EN 55022
- Safety Compliance: EN 50371 for the health requirements

Article numbers

For article number descriptions, please see www.connectblue.com



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