

Wireless LAN Ethernet Port Adapter



Product Brief RWE231i and RWE241i

The connectBlue Rugged Wireless LAN Ethernet Port Adapter 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 Wireless LAN infrastructure. The device supports 802.11an or 802.11bgn for best connectivity and throughput using the 5GHz or 2.4GHz 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 a version with Bluetooth also exists.

KEY FEATURES

- Wireless LAN 802.11an or 802.11bgn
- 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 (R&TTE, FCC, IC)**
- DHCP server and client
- Configurable to optimize for Profinet
- IP65-classed housing with integrated antenna
- Industrial temperature range -30 to +65°C
- Small form factor, 91x66x36 mm

Technical Data – RWE231i and RWE241i

NETWORK COMMUNICATION

Ethernet Interface: 10/100BASE-T with automatic MDI/MDIX cross-over

IP
TCP
UDP
LLDP
HTTP
ARP
DHCP Client / Server
DNS support
SNMP
User management and access control

WIRELESS INTERFACE

Security: WEP64, WEP128, WPA-PSK, WPA2-PSK, TKIP, CCMP (AES), LEAP, PEAP
Regulatory domain support
Roaming sequence list

RWE231i:

- IEEE 802.11bgn
- Range: 400 m (approximate, line-of-sight)

RWE241i:

- IEEE 802.11an
- Range: 200 m (approximate, line-of-sight)

INFRASTRUCTURE MODES

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

CONFIGURATION

Simple, push the button method & Web based configuration
SNMP
AT commands for advanced setup
Profinet optimizations

EXTERNAL INPUT/OUTPUT

9-30 V I/O to trigger configurable event, e.g. roaming

POWER

9-30 VDC
OEM*: 3.3 VDC

HOUSING

IP65 Classed plastic housing
Easily accessed mounting holes

DIMENSIONS

91x66x36.2mm
OEM*: 81x60x20mm

**OEM version available upon request*

*** In Progress*

POSSIBLE USE CASES

- Point-to-point Ethernet cable replacement (both in Ad-Hoc and Infrastructure mode)
- Wireless LAN client adapter in an Infrastructure setup
- Point-to-multipoint cable replacement (in progress)

TYPE APPROVALS**

R&TTE (Europe)
FCC/CFR 47 part 15
IC (Industrie Canada)

ENVIRONMENTAL**

Operating temperature: -30 to +65 °C
Storage temperature: -40 to +85°C

CERTIFICATIONS AND COMPLIANCE**

R&TTE Directive 1999/5/EC:

Effective use of frequency spectrum

RWE231i: EN 300 328 V1.7.1 (2006-10)
RWE241i: EN 301 893 V1.5.1 (2008-12)

EMC

EN 61000-6-2 (2005)
EN 55022

Safety Compliance

EN 50371 (2002) for the health requirements

ORDER NUMBERS

cB-RWE231i-02-A

Rugged Wireless LAN 802.11bgn (2.4GHz) Ethernet Port Adapter Complete kit
Includes: cB-RWE231i-02 unit, 12VDC power adapter with M12 connector and EU/UK/US plug, Ethernet cable (1.8m) with RJ45 and M12 connector

cB-RWE231i-02-0

Rugged Wireless LAN 802.11bgn (2.4GHz) Ethernet Port Adapter with internal antenna. Bulk packaged without accessories.

cB-RWE241i-02-A

Rugged Wireless LAN 802.11an (5GHz) Ethernet Port Adapter Complete kit
Includes: cB-RWE241i-02 unit, 12VDC power adapter with M12 connector and EU/UK/US plug, Ethernet cable (1.8m) with RJ45 and M12 connector

cB-RWE241i-02-0

Rugged Wireless LAN 802.11an (5GHz) Ethernet Port Adapter with internal antenna. Bulk packaged without accessories.

connectBlue™

The strongest connection in a wireless world

HEAD OFFICE: connectBlue AB | Norra Vallgatan 64 3V | SE-211 22 Malmö | Sweden | Phone +46 40-6307100 | Fax +46 40-237137
US OFFICE: connectBlue Inc. | 1460 N. Sandburg Terrace, Suite 2412 | Chicago, IL 60610 | USA | Phone +1 312 927 5859 | Fax +1 312 277 3209
GERMAN OFFICE: connectBlue GmbH | Raiffeisenstrasse 19 | DE-85276 Pfaffenhofen | Germany | Phone +49 8441 786 4160 | Fax +49 8441 786 4161
info@connectblue.com | us-info@connectblue.com | www.connectblue.com

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