Wireless Ethernet Port Adapter

Product Brief RBEPA and RWEPA

The connectBlue Rugged Bluetooth Ethernet Port Adapter (RBEPA) and Rugged Wireless LAN Ethernet Port Adapter (RWEPA) available with a Bluetooth or a Wireless LAN 802.11b/g interface. The Wireless Ethernet Port Adapters are 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. Further, the products are called "Intelligent antennas™" thanks to the ease of use and cost efficiency of the installation and configuration. Another unique feature of the RBEPA and RWEPA is the Low Emission Mode™ which solves potential interference disturbances between Bluetooth and Wireless LAN that is not handled by the Bluetooth implementation of Adaptive Frequency Hopping.

The Wireless Ethernet Port Adapters are part of the connectBlue product range of Wireless Products in industrial housings.

KEY FEATURES
- Wireless LAN 802.11b/g or Bluetooth
- Unique method to handle interference disturbances without damage to the Bluetooth conformity or the interoperability with other devices
- 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
- OEM versions for integration in other devices available on request

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 INTERFERENCE SOLUTION
Bluetooth Adaptive Frequency Hopping
connectBlue Low Emission Mode™

WIRELESS INTERFACE
Bluetooth Support:
Bluetooth version 2.0 (Qualified and Listed as Product)
- Supported Bluetooth Profiles: Generic Access Profile (GAP), Personal Area Networking Profile (PANU, NAP)
- Class I (range up to 400 m)

Wireless LAN Support:
IEEE802.11b/g specification
- Security: Supports WEP64, WEP128, WPA-PSK, WPA2-PSK, TKIP, CCMP (AES), LEAP, PEAP
- Regulatory domain support
- Roaming sequence list
- Range up to 500 m

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
9-30 V 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

POSSIBLE USE CASES
Bluetooth:
- Point-to-point Ethernet cable replacement
- Part of a Multipoint setup with a NAP device

Wireless LAN:
- 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
EN 300 328 V1.7.1 (2006-10)
EN 301 489-1 V1.8.1 (2008-04)
EN 301 489-17 V1.3.2 (2007-06)

EMC
EN 61000-6-2 (2005)

Safety Compliance
EN 60950-1:2001 and/or IEC 60950-1:2001 (1st Edition)
EN 60950-1/A11:2004 + Corrigendum:2004

Bluetooth version only:
1999/519/EC Council Recommendation
EN 50401 (2006)

Wireless LAN version only:
EN 50371 (2002) for the health requirements

ORDER NUMBERS
cB-RBEPAi-02-A
Rugged Bluetooth Ethernet Port Adapter Complete kit
Includes: cB-RBEPAi-02 unit, 12VDC power adapter with M12 connector and EU plug, UK+US power plug converters, Ethernet cable with RJ45 and M12 connector

cB-RBEPAi-02-0
Rugged Bluetooth Ethernet Port Adapter with internal antenna. Bulk packaged without accessories.

cB-RWEPAgi-02-A
Rugged Wireless LAN Ethernet Port Adapter Complete kit
Includes: cB-RBEPAi-02 unit, 12VDC power adapter with M12 connector and EU plug, UK+US power plug converters, Ethernet cable with RJ45 and M12 connector

cB-RWEPAgi-02-0
Rugged Wireless LAN Ethernet Port Adapter with internal antenna

connectBlue™

The strongest connection in a *wireless* world