HIRSCHMANN
A BELDEN BRAND

Essential Part Number: BAT867-R WLAN 11ac 2x2 IP40

Product: BAT867-REUW99AU999AT199L999ZH

Configurator: BAT867-R configurator

Configurator Description

Its rugged design, compact size and select feature set help applications maximize efficiency and performance. The BAT867-R is ideal for industrial settings where space and budgets are limited, such as discrete automation and machine building settings.

Technical Specifications

Product description

Description	Slim industrial DIN-Rail WLAN device with dual band support for installation in industrial environments.
Part Number	942183001
Port type and quantity	Ethernet: 1 x RJ45
Radio protocol	IEEE 802.11a/b/g/n/ac WLAN interface as per IEEE 802.11ac
Country certification	Europe, Iceland, Liechtenstein, Norway, Switzerland, Turkey

More Interfaces

Ethernet	10/100/1000Mbit/s
Power Supply	1x plug-in terminal block, 2-pin
Local Management and Device Replacement	HiDiscovery

Radio technology

Antenna connector	2 × RP-SMA Female, requires antennas with RP-SMA Male connectors
Frequency band	Supports 2.4 GHz and 5 GHz: 2412-2472 MHz and 5180-5825 MHz (regulatory restrictions apply depending on the country of operation)
Modulation	OFDM: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM; Note: MCS numbering changed with 11ac. Supported rates with up to 2 streams: MCS0-MCS9. Channel widths: 20MHz, 40MHz and 80MHz
Receiver sensitivity	-95 dBm
Additional radio features	2x2 MIMO (configurable). Up to 2 streams (configurable). Spatial Multiplexing, Cyclic-Delay Diversity (CDD), Low-Density Parity Check (LDPC) Codes, Maximal Ratio Combining (MRC), Space Time Block Code (STBC)

Hardware

Encryption	Open, WEP, 802.11i - WPA/WPA2 - Personal (PSK), 802.11i - WPA/WPA2 - Enterprise (802.1X: TLS, TTLS/PAP, TTLS/CHAP, TTLS/MSCHAP, TTLS/MSCHAPV2, TTLS/MD5, PEAP/MSCHAPV2)

Power requirements

Operating Voltage	24 VDC (18-32 VDC)
Power consumption	Maximum power consumption : 9 W

Software

Software features	High performance operating system HiLCOS. Supports all WLAN functions, routing, firewall, VLAN, remote access, and redundancy. IPv4 and IPv6.
Management	Web Interface (HTTPs), IPv4, IPv6, SNMP v1/v2/v3
Diagnostics	IPerf Server and Client, System Log, Syslog, Ping, detailed trace functionality, (W)LANMonitor, SNMP
Management Software	WLAN Controller, Industrial HiVision, LANConfig

Ambient conditions

MTBF (Telecordia SR-332 Issue 3) @ 25°C	287 Years
Operating temperature	-10-+60 °C

| Note | Temperature of the surrounding air. |

Storage/transport temperature	-40-+70 °C
Relative humidity (non-condensing)	10-95 %

Mechanical construction

Dimensions (WxHxD)	50 mm x 148 mm x 123 mm
Weight	520g (0.92 oz)
Housing	Metal
Mounting	DIN rail mounting
Protection class	IP40

Approvals

Basis Standard	CE, RED
Safety of information technology equipment	IEC 60950-1(ed.2) , IEC 60950-1(ed.2);am1 , IEC 60950-1(ed.2);am2 , EN60950-1
Transportation	EN 50121-4
Radio	EN 300 328 (2.4GHz), EN 301 893 (5GHz)

WLAN Access Point

Access Point Functionality	Yes (Free selection between Access Point, Access Client and Point-to-Point functionality separately in software). Operates as Managed Access Point in combination with a controller (WLC).

WLAN Client

Client / STA Functionality	Yes

WLAN Typical Receive Sensitivity

802.11n, 2.4 GHz, 20 MHz, MCS0	-93 dBm
802.11n, 2.4 GHz, 20 MHz, MCS7	-76 dBm
802.11n, 5 GHz, 20 MHz, MCS0	-93 dBm
802.11n, 5 GHz, 20 MHz, MCS7	-73 dBm

Scope of delivery and accessories

Accessories	External antennas; Cables 2m, 5m, 15m;
Scope of delivery	Device, safety instructions, 2-pin terminal block for power supply , EU declaration of conformity , 2× 3dBi dual-band omni antenna