HIRSCHMANN
A **BELDEN** BRAND

PB00073HE

BAT867-R Industrial Wireless Access Points

Enable fast data transmission speeds in challenging industrial markets – up to 867 Mbps – with a cost-effective, high-performance wireless LAN access point.

The Hirschmann BAT867-R family of access points supports high-speed IEEE 802.11ac data rates, making it the fastest wireless device in Belden's portfolio. With its select feature set, compact size and robust design, this device helps industrial applications maximize efficiency and performance.

- **Fast data speeds –** ensure fast data transmission and high bandwidth with the IEEE 802.11ac radio module, providing up to 867 Mbps data rates.

- **Industrial design –** comply with the challenging requirements and approvals of industrial markets and be confident your device can withstand signal interference, vibrations, EMC and more.

- **Cost-effective solution –** only pay for the features required by typical industrial WLAN applications to reduce your overall costs.

The BAT867-R offers only the essential interfaces – one radio, one Ethernet port and one power supply – for industrial applications in need of a compactly designed, cost-effective wireless access point. These access points, which can also be used as clients, routers or bridges, feature IEEE 802.11ac and are backward compatible to a/b/g/n standards.

Applications

With its industrial design and ideal feature set, the BAT867-R is a great fit for applications in harsh industrial conditions where space and budget are limited, such as discrete automation and machine building settings.

Wireless access points, like the BAT867-R, offer high levels of flexibility and productivity for machines. Operators are no longer tied to the fixed placement of a control panel. They can monitor and operate machines from tablets or smartphones and follow operations throughout the entire production process.

Additionally, the BAT867-R enables wireless remote access of machines for maintenance, diagnostics and troubleshooting purposes, helping improve machine uptime, prevent failures and reduce travel costs for service personnel.

The BAT867-R also provides reliable wireless connectivity for moving vehicles, such as forklifts and automated guided vehicles (AGVs). In the past, these vehicles had to be driven by a human worker. Now, wireless technology enables more efficient warehouses and reduces operational costs.

Your Benefits

You can set up cost-effective WLAN installations where there is no need for costlier, high-end devices. This device, in particular, is able to offer extremely fast data transmission speeds at a lower cost – because it was designed with just the features you need. You don't pay for extra features you won't use.

A new product to serve your needs.
Be certain.

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BAT867-R Industrial Wireless Access Points

The BAT867-R, a single radio WLAN access point/client, features IEEE 802.11ac technology to transmit data up to 867 Mbps.

Hirschmann's operating system, HiLCOS, adds a rich set of features that support all WLAN functions, including routing capabilities, remote access, Quality of Service (QoS), redundancy protocols and best-in-class security features.

Benefits at a Glance

- Increase data rates with IEEE 802.11ac technology (up to 867 Mbps) or IEEE 802.11n technology (up to 300 Mbps)

- Use a select set of required features, without paying for unnecessary interfaces
  – Single radio with dual band support (2.4 or 5 GHz)
  – Ethernet RJ45 port (10/100/1000 BASE-TX data rates)
  – 24 V DC power supply

- Ensure enhanced data throughput even under conditions of interference, signal fading and multipath with a 2 x 2 MIMO antenna

- Withstand harsh conditions with a robust design
  – DIN rail mounting
  – Operating temperature range from -10 °C to +60 °C
  – IP40 metal housing

- Tap into extensive management, redundancy and security functions with Hirschmann's operating system, HiLCOS

- Meet industrial standards and approvals:
  – Safety: EN 60950-1, UL 60950-1
  – Radio: EN 300 328 (2.4 GHz), EN 301 893 (5 GHz), FCC/CFR 47 Part 15, Industry Canada (IC), EN 301 489-1, EN 301 489-17, EN 61000-6-2
  – Environmental: EN 61131

BAT867-R delivers an optimum price-performance ratio for multiple applications and markets.

Technical Information

Product Description	
Type	**BAT867-R**
Description	802.11ac Industrial Wireless LAN Access Point/Client
Port Type and Quantity	1 x WLAN Interface, 1 x LAN port 10/100/1000BASE-TX
Radio Standard	IEEE 802.11a/b/g/n/ac WLAN Interface, 2 x 2 MIMO up to 867 Mbit/s gross bandwidth
Radio Technology	
Antenna Connector	2 x RSMA
Range	Depending on type of antenna, frequency range and data rate
Frequency Band	Supporting 2.4 GHz and 5 GHz: 2412 to 2472 MHz and 5180 to 5825 MHz
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
Radio Topology	WLAN access point, bridge, router, point-to-point, client, client-bridge mode
Encryption	IEEE 802.11i/WPA2 with passphrase or 802.1x and hardware-accelerated AES, closed network, WEP64, WEP128, WEP152, user authentication, 802.1x/EAP, LEPS, WPA1/TKIP, fast roaming with Opportunistic Key Caching. Please refer to the HiLCOS data sheet for further information.
Interfaces	
Ethernet	1 x RJ45 (10/100/1000BASE-TX data rates)
Reset Button	Available
LED	3
Power Requirements	
Operating Voltage	1 x 24 V DC
Ambient Conditions	
Operation Temperature	-10 °C to +60 °C
Storage/Transport Temperature	-40 °C to +70°C
Mechanical Construction	
Dimensions (W x H x D)	50 x 147.5 x 122.5 mm
Mounting	DIN Rail
Protection Class	IP40
Approvals	
Safety of Information Technology Equipment	EN 60950-1, UL 60950-1 (pending)
Radio	EN 300 328 (2.4 GHz), EN 301 893 (5 GHz), FCC/CFR 47 part 15, IC (Industry Canada), EN 301 489-1, EN 301 489-17, EN 61000-6-2
Environmental	EN 61131

NOTE: These are the prominent technical specifications. For complete technical specifications visit: www.hirschmann.com

Wireless technology enables more efficient warehouses and reduces operational costs.

BAT867-R Configurations

`B A T 8 6 7 - R  E U  W  9  9  A  U  9  9  9  A  T 1  9 9  L  9  9  9  Z  H  X X . X X . X X X X`

Product
BAT867-R = IP40-housing

Country–Certification
EU = Europe (CE)
Many other country certifications available.
Please refer to the online configurator at: www.hirschmann.com

Slot 1
W = WLAN module

Slot 2
9 = Not installed

Slot 3
9 = Not installed

Client/Access Point
A = Access Point
C = Client

Voltage Range 1
U = 24 V DC

Voltage Range 2
9 = Not installed

Approvals 1
9 = No additional approval

Approvals 2
9 = No additional approval

Mounting
A = Standard

Interface 1
T1 = Twisted Pair/RJ45

Interface 2
99 = Not installed

Temperature Range
L = –10 °C to +60 °C

Software Option 1
9 = None

Software Option 2
9 = None

Software Option 3
9 = None

Configuration
Z = Accessory package
9 = No Accessories

Type
H = Standard Hirschmann

Software Release
XX.XX.XXXX = Current Software Release

NOTE: The part number categories (**Configuration** and **Software Release**) are optional.