



# HIRSCHMANN

A BELDEN BRAND

## Product Bulletin

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.



## 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 2x2 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](http://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](http://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.