

**Product:** [BAT867-F North America f. Transportation](#) 



802.11ac IP65/IP67 WLAN Gateway, 2x2 MIMO, Dual Band, USA and Canada, Accessories included

**Product Description**

802.11ac IP65/IP67 WLAN Gateway, 2x2 MIMO, Dual Band,, USA and Canada,, Accessories included,, Connectors included

**Technical Specifications**

**Product description**

Name:	BAT867-F North America for Transportation
Part Number:	942276300
Port type and quantity:	1x Ethernet M12 X-Coded,, 1x Power M12 A-Coded
Radio protocol:	IEEE 802.11a/b/g/n/ac WLAN interface as per IEEE 802.11ac , 802.11F (IAPP) as Access Point, 802.11r as Access Point
Country certification:	Canada, USA

**More Interfaces**

Local Management and Device Replacement:	Webinterface, HiDiscovery v1, Config files and scripts, Different config levels (factory, customer-specific, rollout, running)
Ethernet:	1x 10/100/1000Mbit/s
Power Supply:	PoE PD via Ethernet M12 X-Coded,, 24VDC via M12 A-coded 5-pin,, field assembly connectors included,, field assembly connectors included

**Radio technology**

Antenna connector:	2x N-Type Female Socket, requires N-Type Male Connectors on the Antenna
Frequency band:	Supports 2.4 GHz or 5 GHz: 2412-2472 MHz or 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)

**Power requirements**

Operating Voltage:	PoE PD 802.3af Class 3,, 24 VDC (18-32 VDC)
Power consumption:	Maximum power consumption : 9 W

**Diagnostics features**

Monitoring:	Syslog (UDP), SNMPv1/2c/3, (W)LANMonitor, Console, Email (SMTP)
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**Security features**

Authentication:	User Management (local, RADIUS, TACACS+, fallback mode)
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)
Stateful inspection firewall:	Static Firewall Layer2, Layer3, IPv4/IPv6 with Incoming and Forwarding Ruleset, Stealth mode

**Service**

Other services:	DHCP Server (IPv4/IPv6, dynamic and static leases, IPv6 Prefix Delegation, DNS proxy) , DynDNS client , PPPoE , FTP server , E-Mail via SMTP
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**Software**

Software features:	High performance operating system HiLCOS. Supports WLAN functions, routing, firewall, VLAN and redundancy. IPv4 and IPv6.
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Operating system:	HiLCOS, stores two separate firmware versions for fallback
Switching:	IGMP Snooping, VLAN (802.1Q), Switching over WLAN (Client Bridging or P2P)
Redundancy:	RSTP, VRRP v2
Management:	Web Interface (HTTP(s)), IPv4, IPv6, SNMP v1/v2/v3, Console (SSH, Telnet)
Diagnostics:	System log, reboot log, signal strength, Trace (via Lantools or Console), LEDs, IPPerf Server and Client
Configuration:	Text file configuration and script, HTTP(s), Console (SSH, Telnet), SNMPv1/2c/3, LANConfig
Time synchronisation:	SNTP Client, SNTP Server
Routing:	Static unicast routing, RIP, Multinetting, IP Masquerading, Port Forwarding, Proxy ARP, 1-to-1 NAT, 1-to-N NAT, N-to-N NAT
Dynamic routing:	VRRP v2, BGP, OSPF
Management Software:	Industrial HiVision , LANConfig., optional BAT Controller (WLC for AccessPoint mode)

## Ambient conditions

MTBF (Telecordia SR-332 Issue 3) @ 25°C:	2 046 413 h
Operating temperature:	-40-+70 °C
Note:	Temperature of the surrounding air.
Storage/transport temperature:	-40-+70 °C
Relative humidity (non-condensing):	10-95 %
Protective paint on PCB:	Yes (conformal coating)

## Mechanical construction

Dimensions (WxHxD):	172 mm x 150 mm x 50 mm
Housing:	Metal
Mounting:	Wall mounting
Protection class:	IP65/67 (when using matching connectors)

## Approvals

Basis Standard:	FCC, IC
Safety of information technology equipment:	IEC/EN 62368-1:2014 + AC:2015 (formerly EN 60950-1), EN 62311:2008
Transportation:	EN 50121-4:2016
Radio:	ETSI EN 300 328:2019 V2.2.2 (2.4GHz), ETSI EN 301 893:2017 V2.1.1 (5GHz), ETSI EN 302 502:2017 V2.1.1 (5.8GHz)

## Reliability

Guarantee:	60 months (please refer to the terms of guarantee for detailed information)
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## 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 BAT Controller (WLC). PMK Caching, Preauthentication, OKC (Opportunistic Key Caching).
Number of SSIDs:	8 (In parallel for Access Point and P2P mode, exclusively in Client mode)
Max. Number of Connected Clients:	127

## WLAN Client

Client / STA Functionality:	Yes (Can be switched in software between AP, P2P, Client)
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## 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 to Order Separately:	External antennas; Cables 2m, 5m, 15m;; 2x Antenna (BAT-ANT-N-3AGN-IP67); 1x 50 Ω terminating resistor
Scope of delivery:	Device, safety instructions, dust protection caps., outdoor safety instructions., 2x Antenna (BAT-ANT-N-3AGN-IP67), 1x 50 Ω terminating resistor, Field attachable Gigabit Ethernet connector "X"-coded (942 083-001), M12 power supply plug (ELKA 5012 PG7), Field attachable Gigabit Ethernet connector "X"-coded (942 083-001), M12 power supply plug (ELKA 5012 PG7)

## Further Instructions

Product Documentation:	<a href="https://www.doc.hirschmann.com">https://www.doc.hirschmann.com</a>
Certificates:	<a href="https://www.doc.hirschmann.com/certificates.html">https://www.doc.hirschmann.com/certificates.html</a>
Software Download:	<a href="https://hirschmann-support.belden.com/en-US/downloads">https://hirschmann-support.belden.com/en-US/downloads</a>

## History

Update and Revision:	Revision Number: 0.78 Revision Date: 05-15-2025
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## Variants

Item #	Type
942276300	BAT867-FUSW99AW9J9BT699E999ZHXX.XX.XXXX

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