

Product: BAT450-FEU599AW999AT699A999ZHXX.XX.XXXX

Configurator: BAT450-F configurator



Configurator Description

The BAT450-F family of wireless access points features multiple interface configurations. The customized design allows you to select the elements you need based on the unique requirements of your network and its environmental conditions. The device's robust connection options include WLAN 11n, WLAN 11ac, LTE/4G and Ethernet interfaces. The BAT450-F runs on Hirschmann's HiLCOS software, which enables your network manager to confidently maintain secure and reliable wireless connections.

Technical Specifications

Product description

Description	Dual Band Ruggedized (IP65/67) Industrial Wireless LAN Access Point/Client for installation in harsh environment.
Port type and quantity	First Ethernet: 8-pin, X-coded M12
Radio protocol	IEEE 802.11a/b/g/n/ac WLAN interface as per IEEE 802.11ac, up to 1300 Mbit/s gross bandwidth
Country certification	Europe, Iceland, Liechtenstein, Norway, Switzerland, Turkey

More Interfaces

Ethernet	Ethernet port 1: 10/100/1000 Mbit/s, PoE PD port (IEEE 802.3af)
Power Supply	5-pin "A"-coded M12, PoE on Ethernet port 1
Local Management and Device Replacement	Auto Configuration Adapter (ACA) for Plug&Play device replacement, HiDiscovery

Radio technology

Antenna connector	3 × N socket for each WLAN module
Frequency band	; WLAN supports 2.4 GHz and 5 GHz: 2412 -2472 MHz and 5180 -5825 MHz (additional regulatory restrictions apply depending on the country of operation)
Modulation	Note: MCS numbering changed with 11ac. Supported rates with up to 3 streams: MCS0-MCS9. Channel widths: 20MHz, 40MHz and 80MHz
Receiver sensitivity	-95 dBm
Additional radio features	3x3 MIMO (configurable). Up to 3 streams (configurable).

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)
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Power requirements

Operating Voltage	24 VDC (16.8-32 VDC)
Power consumption	max. 10 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	126 Years
Operating temperature	-25-+70 °C
Note	Temperature of the surrounding air.

Storage/transport temperature	-40-+85 °C
Relative humidity (non-condensing)	10-95 %
Protective paint on PCB	No

Mechanical construction

Dimensions (WxHxD)	261 mm x 202 mm x 56 mm
Weight	2000 g
Housing	Metal
Mounting	Wall mounting, Mast/Pole mounting – set available separately.
Protection class	IP65 / IP67

Approvals

Basis Standard	CE, RED
Safety of information technology equipment	EN 60950-1
Radio	EN 300 328 (2.4 GHz), EN 301 893 (5 GHz), EN 302 502 (5.8 GHz)

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 for each module separately in software). Operates as Managed Access Point in combination with a controller (WLC).
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WLAN Client

Client / STA Functionality	Yes
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WLAN Typical Receive Sensitivity

802.11n, 2.4 GHz, 20 MHz, MCS0	-94 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; external surge protection; Mast mount adapter; Field-Assembly Power Connector M12 (ELKA 5012 PG7); Field-Assembly Ethernet Plug (942 083-001); Serial terminal cable (943 902-001); Indoor LTE Antenna (WWAN-A-I-41-S-O), Indoor GPS Antenna (GNSS-A-O-90-S-P); Overvoltage Protector WLAN (943 903-373); Overvoltage Protector Ethernet (943 903-374)
Scope of delivery	Device, safety instructions, dust protection caps , EU declaration of conformity , 1x Field-Assembly Power Connector M12 (ELKA 5012 PG7) , 1x Field-Assembly Ethernet Plug (942 083-001)

Further Instructions

Product Documentation	https://www.doc.hirschmann.com/index.html
Certificates	https://www.doc.hirschmann.com/certificates.html
Software Download	https://hirschmann-support.belden.com/en-US/downloads

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