Essential Part Number: BAT450-F WLAN 11n 3x3 IP67

Product: BAT450-FEUW99AW999AT6T7T999ZH

Configurator: BAT450-FEUW99AW999AT6T7T999ZH

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.
Part Number	942142100
Port type and quantity	First Ethernet: 8-pin, X-coded M12 , Second Ethernet: 8-pin, X-coded M12 , Serial port: 4-pin, A-coded M12
Radio protocol	IEEE 802.11a/b/g/n WLAN interface as per IEEE 802.11n, up to 450 Mbit/s gross bandwidth
Country certification	Europe, Iceland, Liechtenstein, Norway, Switzerland, Turkey

More Interfaces

V.24 interface	V.24/ACA11 interface: Configuration, AT modem, train carriage coupling, serial gateway, AutoConfiguration Adapter ACA11
Ethernet	Ethernet port 1: 10/100/1000Mbit/s, PoE PD port (IEEE 802.3af) , Ethernet port 2: 10/100/1000Mbit/s , Serial: V.24/ACA11
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	Supports 2.4 GHz and 5 GHz: 2400 -2483.5 MHz (ISM) and 5170 -5850 MHz
Modulation	20M0F7D (DSSS/OFDM) @ 2.4 GHz, 20M0G7D (OFDM) @ 5 GHz, MCS 0 - MCS23
Range	Up to 20 km (depending on antenna used, frequency range and data rate)
Additional radio features	Integrated ESD protection, Clear Space®.

Hardware

Encryption	Open, WEP, WPA/WPA2 Personal PSK, WPA/WPA2 Enterprise Radius 802.1X

Power requirements

Operating Voltage	24 VDC (16.8-32 VDC)
Power consumption	max. 10 W

Software

Software features	High performance operating system for the Hirschmann BAT products. Supports all WLAN functions, routing, firewall, VLAN, remote access, and redundancy. IPv6 in preparation. All BAT450-F devices operate as either standalone access points or as managed access points in combination with a BAT WLC Controller. Please refer to the HiLCOS data sheet for further information.
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	147 Years

Operating temperature	-40-+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)

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)

WLAN Client

Client / STA Functionality	Yes

Scope of delivery and accessories

Accessories	External antennas; external surge protection; Mast mount adapter
Scope of delivery	Device, safety instructions, dust protection caps , EU declaration of conformity , Antennas BAT-ANT-N-3AGN-IP67, 50 Ω terminating resistors, Field-assembly ethernet connector(s) and power connector , Serial terminal cable: M12 plug, 4-pin, A-coded