**HIRSCHMANN**

A **BELDEN** BRAND

**Product:** BAT450-FEUW99AW9K9AT699E999ZH10.12.XXXX

**Configurator:** BAT450-F

## 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

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|---|---|
| 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 WLAN interface as per IEEE 802.11n, up to 450 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 |

### Radio technology

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|---|---|
| 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®. |

### Power requirements

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

### Security features

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

### Software

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|---|---|
| INET.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

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|---|---|
| MTBF (Telcordia SR-332: Gb 25 | 152 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 | Yes (conformal coating) |

## Mechanical construction

| 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 equipment | EN 60950-1 |
| Railway norm | EN 50155 |
| 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) |
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## 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 |