



World Premiere:
Hirschmann brings WLAN to ATEX zone 2.
The BAT54-F and BAT54-F X2.

- IP 67 protection class
- BAT54-F X2 also approved for ATEX zone 2
- Lightweight stainless steel case (only 5 kg)
- Can be used as access points or access clients
- Rugged design for operation in extreme conditions



HIRSCHMANN

A Belden Company

The first IP 67 access point which is approved for ATEX zone 2.

BAT54-F/BAT54-F X2

Product name	BAT54-F	BAT54-F FCC	BAT54-F X2	BAT54-F X2 FCC
Product description				
Description	Dualband Ruggedized Industrial Wireless LAN Access Point/Client with two independent radio modules with IEEE 802.11a/b/g/h/i for installation in harsh environment, IP 67 protection class, M12 connectors and waterproof.	Dualband Ruggedized Industrial Wireless LAN Access Point/Client with two independent radio modules with IEEE 802.11a/b/g/h/i for installation in harsh environment, IP 67 protection class and waterproof, M12 connectors, with FCC-approval for USA and Canada.	Dualband Ruggedized Industrial Wireless LAN Access Point/Client with two independent radio modules with IEEE 802.11a/b/g/h/i for installation in hazardous environment, IP 67 protection class, M12 connectors and waterproof.	Dualband Ruggedized Industrial Wireless LAN Access Point/Client with two independent radio modules with IEEE 802.11a/b/g/h/i for installation in hazardous environment, IP 67 protection class and waterproof, M12 connectors, with FCC-approval for USA and Canada.
Port type and quantity	two WLAN interfaces, up to 8 SSIDs per WLAN interface, one LAN port 10/100 BASE-TX, autosensing, power over ETHERNET according to IEEE 802.3af	two WLAN interfaces, up to 8 SSIDs per WLAN interface, one LAN port 10/100 BASE-TX, autosensing, power over ETHERNET according to IEEE 802.3af	two WLAN interfaces, up to 8 SSIDs per WLAN interface, one LAN port 10/100 BASE-TX, autosensing, power over ETHERNET according to IEEE 802.3af	two WLAN interfaces, up to 8 SSIDs per WLAN interface, one LAN port 10/100 BASE-TX, autosensing, power over ETHERNET according to IEEE 802.3af
Type	BAT 54-F	BAT 54-F FCC	BAT 54-F X2	BAT 54-F X2 FCC
Order-Nr.	943 959-111 available Q1-2008	943 959-011 available Q1-2008	943 959-101 available Q1-2008	943 959-001 available Q1-2008
Radio technology				
Antenna connector	four N-type jack antenna connectors			
Range	up to 20 km with external antenna (depending on type of antenna, frequency range and data rate)			
Encryption	IEEE 802.11i/WPA2 with passphrase or 802.1x and hardware-accelerated AES, user authentication by 802.1x/EAP or LEPS, IEEE 802.1x supplicant in client mode, WPA/TKIP, WEP, access-control lists, WLAN port and protocol filter, RADIUS client and server, built-in firewall with QoS, port filter, protocol filter, IDS and DoS protection, PMK-caching and preauthentication for fast roaming with IEEE 802.1x			
Radio topology	WLAN Access Point, bridge, router, point-to-point, client, client-bridge mode, fixed mesh with RSTP			
Roaming	seamless handover between radio cells, IAPP support, IEEE 802.11d support, background scanning for rogue AP detection and fast roaming, support of IEEE 802.11e (WME), preauthentication and PMK caching with IEEE 802.1x			
Power requirements				
Operating voltage	2 x 24 V DC; 1 x power-over-ETHERNET according to IEEE 802.3af; all power supplies redundant to each other			
Ambient conditions				
Operation temperature	-20° C up to +60° C (-40° C up to +70° C according to EN50155)			
Mechanical construction				
Dimensions (W x H x D)	261 x 189 x 55 mm	261 x 189 x 55 mm	261 x 189 x 55 mm	261 x 189 x 55 mm
Mounting	for wall and mast mounting	for wall and mast mounting	for wall and mast mounting	for wall and mast mounting
Scope of delivery and accessories				
Scope of delivery	device, CD, M12 connector, two 3-dBi-dipole-dualband antennas, two 50 Ohm terminators, mounting material			
Accessories to order separately	external antennas for 802.11b/g and 802.11a/h operation adaptor cable and surge arrestor, mast mount material			

The new Hirschmann WLAN system is available in two versions: the BAT54-F with IP 67 protection and the BAT54-F X2 for ATEX zone 2.

Both devices support bridge, point-to-multipoint and infrastructure modes and offer comprehensive management, security and quality of service functions. These rugged units are built to take the punishment in rail or petrochemical wireless network applications.

- The units are designed to operate at temperatures between -20° C and +60° C, and they provide full shock and vibration protection.
- The maximum data rate in the 5 GHz or 2.4 GHz band is 108 Mbit/s per wireless module.

- The fast roaming function supports uninterrupted connection during transitions from one wireless cell to the next.
- Encryption and authentication comply with IEEE 802.11i and 802.1x.
- A web browser, TELNET or Windows-based software which supports rogue AP detection can be used for configuration and diagnostics.
- Network segments can be isolated or effectively protected with the integrated firewall on the IP router and DHCP server which are included as standard features.