



BAT54-Rail

Industrial Networking:Industrial Ethernet:Wireless LAN:Chassis

Product description

Description	Dualband Industrial Wireless LAN Access Point/Client with two independent radio modules with IEEE 802.11a/b/g/h/i
Port type and quantity	Two WLAN interfaces, up to 8 SSIDs per WLAN interface, two LAN ports 10/100BASE-TX, autosensing, Power over Ethernet according to IEEE 802.3af, IP40-housing
Type	BAT54-Rail
Order No.	943 926-001

Radio technology

Antenna connector	four RP-SMA antenna connectors
Range	Up to 20km with external antenna (depending on type of antenna, frequency range and data rate)
Data rate	54 Mbps according to IEEE 802.11g (Fallback to 48, 36, 24, 18, 12, 9, 6 Mbps, Automatic Rate Selection), compatible to IEEE 802.11b (11, 5.5, 2, 1 Mbps, Automatic Rate Selection), 802.11 b/g compatibility mode or pure g or pure b selectable. 54 Mbps according to IEEE 802.11a/h (fallback to 48, 36, 24, 18, 12, 9, 6 Mbps, Automatic Rate Selection), Super A/G with Turbo Mode (108 MBps), Bursting, Compression, fully compliant to ETSI requirements with TPC and DFS
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
Frequency band	two independent radio modules, each 2,4GHz and 5GHz: 2400-2483,5 MHz (ISM) and 5150-5750 MHz
Modulation	22M0F7D(DSSS/OFDM) at 2.4 GHz 20M0G7D (OFDM) at 5 GHz
Receiver sensitivity	2,4GHz 802.11b: -87dBm @ 11Mbit/s, -94dBm @ 1Mbit/s 2,4GHz 802.11g: -87dBm @ 6Mbit/s, -70dBm @ 54Mbit/s 5GHz 802.11a/h: -87dBm @ 6Mbit/s, -67dBm @ 54Mbit/s
Radio topology	WLAN Access Point, Bridge, Router, Point-to-Point, Client, Client-Bridge Mode
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)
Radio Power	2,4 GHz 802.11b: +19dBm @ 1 and 2 Mbps, +19dBm @ 5.5 and 11Mbps, 2,4 GHz 802.11g: +19dBm @ 6Mbps, +14dBm @ 54 Mbps, 5GHz 802.11a/h: +18dBm @ 6Mbps, +12 dBm @ 54 Mbps with TPC and DFS, Power Reduction in 1dB steps down to 0,5dBm minimum

Power requirements

Operating voltage	2 * 24V DC; 12V DC external Power Supply (230V) 2x Power-over-Ethernet according to IEEE802.3af; all power supplies redundant to each other
Current consumption at 24 V DC	417mA
Current consumption	12V DC: 625mA; 24V DC: 417 mA; PoE (48V DC): 167 mA

Service

Diagnostics	Extensive LOG and TRACE options, PING and TRACEROUTE for checking connections, LANmonitor status display, internal logging buffer for SYSLOG and firewall events, monitor mode for Ethernet ports, WLANmonitor for WLAN network overview and Rogue AP detection
	SNMP management via SNMP V2, private MIB exportable by WEBconfig, MIB II Remote configuration with Telnet/SSL, SSH, browser (HTTP/HTTPS), TFTP or SNMP, firmware upload via HTTP/HTTPS or TFTP
	Support of up to 4094 VLAN IDs for WLAN connections, 256 simultaneously usable VLAN tags for 802.11 clients
Other services	Warning via e-mail, SNMP-Traps and SYSLOG; Remote management and configuration by modem support via LAN (DSL) or serial port
Ambient conditions	
Operation temperature	-20°C to +50°C
Storage/transport temperature	-20°C to 70°C
Relative humidity (non-condensing)	max. 95%
MTBF	more than 3 years
Mechanical construction	
Dimensions (W x H x D)	80mm x 100mm x 135mm
Mounting	for wall and Din Rail mounting
Approvals	
Safety of information technology equipment	EN 60950
Radio	EN 300 328, EN 301 893, notified in all countries of EU. For other notifications or certifications please refer to sales@hirschmann.de
Environmental	EN 61131 for operation in automation environment EN 50155 for operation in vehicles EMC approval for E1 certification (cars and vehicles) available
Scope of delivery and accessories	
Scope of delivery	device, CD, serial cable, Ethernet cable 3m, two 3-dBi-Dipol - Dualband antennas, two 50Ohm terminators, Rail mount material
Accessories to order separately	external antennas for 802.11b/g and 802.11a/h operation adapter cable and surge arrestor