


## Data sheet BAT54-F BG - BAT54-F BG

Industrial Ethernet:Industrial Wireless LAN:Chassis:BAT-F:BAT54-F BG	
Name	BAT54-F BG
	
<b>Delivery informations</b>	
Document created at	05-08-2010
Availability	available
<b>Product description</b>	
Description	Singleband 2.4 GHz Ruggedized Industrial Wireless LAN Access Point/Client with two independent radio modules with IEEE 802.11b/g/i for installation in harsh environment
Port type and quantity	2 x WLAN interfaces, up to 8 SSIDs per WLAN interface, one LAN port 10/100BASE-TX, autosensing, Power over Ethernet according to IEEE 802.3af
Type	BAT54-F BG
Order No.	943 959-212
<b>Radio technology</b>	
Antenna connector	4 x N-type jack antenna connectors
Range	Please refer to the antenna distance calculator.
Transmission 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. Super G with Turbo Mode (108 Mbps), Bursting, Compression
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
Operating system	LAN interface usable for simultaneous DSL-over-LAN, IP-Router, NAT/Reverse NAT (IP-Masquerading) DHCP-Server, DHCP-Client, DHCP-Relay-Server, DNS-Server, PPPoE-Client (incl.Multi-PPPoE), PPTP-Client und -Server, NetBIOSProxy,DynDNS-Client, NTP, Port-Mapping
Frequency band	2 x independent radio modules, each singleband 2.4 GHz: 2400-2483.5 MHz (ISM)
Modulation	22M0F7D(DSSS/OFDM) @ 2,4 GHz
Receiver sensitivity	2.4 GHz 802.11b: -87 dBm @ 11 Mbit/s, -94 dBm @ 1 Mbit/s; 2.4 GHz 802.11g: -87 dBm @ 6 Mbit/s, -70 dBm @ 54 Mbit/s
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
Radio Power	2.4 GHz 802.11b: +19dBm @1 and 2 Mbps, +19dBm @ 5.5 and 11 Mbps, 2.4 GHz 802.11g: +19 dBm @ 6 Mbps, +14 dBm @ 54 Mbps, Power Reduction in 1dB steps down to 0.5 dBm minimum
<b>Power requirements</b>	
Operating voltage	2 x DC 24 V; 1 x Power-over-Ethernet according to IEEE802.3af; all power supplies redundant to each other
Current consumption at 24 V DC	417 mA
Current consumption	DC 24 V: 417 mA; PoE (DC 48 V): 167 mA
<b>Service</b>	
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
Management	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
Other services	Warning via e-mail, SNMP-Traps and SYSLOG; Remote management and configuration by modem support via LAN (DSL) or serial port
<b>Ambient conditions</b>	
Operation temperature	-20 °C up to +55 °C
Storage/transport temperature	-40 °C up to +70 °C
Relative humidity (non-condensing)	max. 95%
MTBF	43.3 years
<b>Mechanical construction</b>	
Dimensions (W x H x D)	261 mm x 189 mm x 55 mm

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<b>Mounting</b>	for wall and mast mounting
<b>Protection class</b>	IP 65, IP 67
<b>Approvals</b>	
<b>Safety of information technology equipment</b>	EN 60950
<b>Radio</b>	EN 300328, EN 301893, notified in all countries of EU. For other notifications or certifications please refer to INET-Sales@hirschmann.de
<b>Environmental</b>	EN 61000-6-2 , EN 61131
<b>Scope of delivery and accessories</b>	
<b>Scope of delivery</b>	Device, CD, M12 connector, 2 x 50 Ohm terminators, mounting material
<b>Accessories to order separately</b>	External antennas for 802.11b/g operation adapter cable and surge arrestor, mast mount material