



Wireless Ethernet



Wireless Ethernet Access Point/Clients BAT Series



With applications where the reliability of a hard-wired connection is not practical (or feasible), a wireless solution may be the best solution. The new line of BAT wireless Ethernet access points/clients/bridges has an extensive feature list that sets it apart from your average commercially-available options - **now supporting 802.11n**.

All BATs can be powered via 24 VDC and/or PoE (the RAILS even include a 110/220VAC wall adapter).



BAT54

BAT54-Rail and -Rail Client

- 802.11b/g (2.4 GHz) and 802.11a/h (5 GHz)
- Simultaneous 2.4/5 GHz communication and redundant WLAN for BAT54-Rail
- Redundant WLAN connections (BAT54-Rail)
- Up to 108 Mbps bandwidth
- IEEE 802.11i and 802.1x security
- Redundant 24 VDC power inputs (incl. IEEE 802.3af PoE support)
- Redundant connections using RSTP
- Built-in IP routing, fast roaming and firewall
- Operating temperature of -30° C to +50° C
- Includes two 3 dBi dipole dual-band antennas and two 50 Ohm terminators (client: 1 antenna and 1 terminator)



BAT300

BAT300-Rail

- Same features and functionality as BAT54-Rail above, but as a single WLAN with support for 802.11a/b/g/h/n.
- 802.11b/g (2.4 GHz) and 802.11a/h/n (5 GHz)
- Redundant WLAN connections
- Up to 300 Mbps bandwidth (802.11n draft 2.0 with MSC15)
- Includes three 3 dBi dipole dual-band antennas

BAT300-F and BAT300-F FCC

- IEEE 802.11n (draft 2.0) Waterproof to IP67 standard
- 1 x WLAN interface
- Up-to 8 x SSID's per WLAN interface
- Two LAN ports 10/100BASE-TX
- Autosensing, Power over Ethernet (POE), per IEEE 802.3af - Includes three 3 dBi dipole dual-band antennas



BAT54-F

BAT300-F

BAT54-F and BAT54-F X2

- Same features and functionality as BAT54-Rail above
- Waterproof to IP67 standard
- BAT54-F X2 also approved for ATEX zone 2
- Rugged design for operation in extreme conditions
- Designed to operate between -20° C and +55° C
- Full shock and vibration protection
- Includes two 3 dBi dipole dual-band antennas and two 50 Ohm terminators

BAT SERIES, Access Point/Client/Bridge, 802.11a/b/g/h/i/n - DIN Rail Mount

Part No.	Order No.	Description
BAT54-Rail	943 926-001	DIN rail mounted Access Point/Client Bridge w/antennas (802.11a/b/g/h/i) 4 x RP-SMA connector, (non-U.S. applications only)
BAT54-Rail-FCC	943 926-002	DIN rail mounted Access Point/Client Bridge w/antennas (802.11a/b/g/h/i) 4 x RP-SMA connector, (U.S. applications)
BAT54-Rail Client	943 926-501	DIN rail mounted Access Client w/antennas (802.11a/b/g/h/i) 2 x RP-SMA connector, (non-U.S. applications)
BAT54-Rail Client-FCC	943 926-502	DIN rail mounted Access Client w/antennas (802.11a/b/g/h/i) 2 x RP-SMA connector, (U.S. applications)
BAT300-Rail	943 989-001	DIN rail mounted Access Point/Client Bridge w/antennas (802.11a/b/g/h/i/n) 3 x RP-SMA connector, (non-U.S. applications only)
BAT300-Rail FCC	943 989-101	DIN rail mounted Access Point/Client, Bridge w/antennas (802.11a/b/g/h/i/n) 3 x RP-SMA connector, (U.S. applications)



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BAT SERIES, Access Point/Client, 802.11a/b/g/h/i/n - IP 67 / Hard Mount

Part No.	Order No.	Description
BAT54-F	943 959-111	IP67 Access Point, Client, Bridge w/out antennas (802.11a/b/g/h/i) 4 x N connector (non-U.S. applications only)
BAT54-F FCC	943 959-011	IP67 Access Point, Client, Bridge w/out antennas (802.11a/b/g/h/i) 4 x N connector (U.S. applications only)
BAT54-F X2	943 959-101	IP67 ATEX Zone II - Access Point, Client, Bridge w/out antennas (802.11a/b/g/h/i) 4 x N connector (non-U.S. applications only)
BAT54-F X2 FCC	943 959-001	IP67 ATEX Zone II - Access Point, Client, Bridge w/out antennas (802.11a/b/g/h/i) 4 x N connector (U.S. applications only)
BAT300-F	943 959-118	Dualband Ruggedized Hard Mount Access Point, Client, w/ single independent radio modules w/ IEEE 802.11n (draft 2.0) for Harsh Environments
BAT300-F FCC	943 959-018	Dualband Industrial Performance Hard Mount Access Point, Client, w/ IEEE 802.11n (draft 2.0) for Harsh Environments

BAT SERIES, Dual-Frequency Antennas / 802.11a/b/g/n (2.4 GHz and 5 GHz)

Part No.	Order No.	Type	Standards	Est. Max Outdoor Range
BAT-ANT-N-6ABG-IP65	943 981-004	Dual Band Omni-Directional	802.11a/b/g	2.99km
BAT-ANT-N-MiMoDB-5N-IP65	943 981-012	Dual Band Omni-Directional, 2.4GHz 3.5dBi, 5GHz 5.5 dBi, MiMo	802.11a/b/g/n	.5km
BAT-ANT-6ABG-IP65	943 981-007	Dual Band Omni-Directional, 2.4GHz 6dBi, 5GHz 8dBi	802.11a/b/g	0.89km

BAT SERIES, Antennas / 802.11a/n (5 GHz)

Part No.	Order No.	Type	Standards	Est. Max Outdoor Range
BAT-ANT-N-5A-IP65	943 981-003	5GHz Omni-Directional, 5dBi gain	802.11a	0.45km
BAT-ANT-N-9A-DS-IP65	943 981-010	5GHz, Directional antenna, 8dBi gain w/polarization diversity	802.11a/n	1.12km
BAT-ANT-N-MiMo5-9N-IP65	943 981-013	5GHz, Directional antenna, 9dBi gain, MiMo	802.11a/n	1.2km
BAT-ANT-N-18A-IP65	943 981-006	5GHz, Directional antenna, 18dBi gain	802.11a	8.91km
BAT-ANT-N-23A-V-IP65	943 981-007	5GHz, Directional antenna, 23dBi gain	802.11a	15.84km
BAT-ANT-N-23A-VH-IP65	943 981-008	5GHz, Directional antenna, 23dBi gain w/polarization diversity	802.11a/n	15.84km

BAT SERIES, Antennas / 802.11b/g/n (2.4 GHz)

Part No.	Order No.	Type	Standards	Est. Max Outdoor Range
BAT-ANT-N-6G-IP65	943 981-002	2.4GHz Omni-Directional, 6dBi gain	802.11b/g	2.98km
BAT-ANT-N-8G-DS-IP65	943 981-009	2.4GHz Directional, 8dBi gain w/polarization diversity	802.11b/g/n	3.75km
BAT-ANT-N-14G-IP65	943 981-005	2.4GHz Directional, 14dBi gain	802.11b/g	7.49km
BAT-ANT-N-LC-G-50m-IP65	943 981-001	2.4GHz Leaky Coax, 50 meter (1 x N connector)	802.11b/g	
BAT-ANT-N-LC-G-100m-IP65	943 981-101	2.4GHz Leaky Coax, 100 meter (2 x N connectors)	802.11b/g	

BAT SERIES, Accessories

Part No.	Order No.	Type	Standards
BAT54-F MAST MOUNT	943 966-001	Mast Mounting Kit for BAT (IP67) products	
BAT-CLB-2 N (male-male)	943 903-513	Antenna cable 2m, N Male to N Male	802.11a/b/g/n
BAT-ANT-2 N (male - female)	943 981-514	2 meter, N male - N Female	802.11a/b/g/n
BAT-CLB-15 N m-f	943 903-515	15 meter, N Male - N Female	802.11a/b/g/n
BAT-PIGTAIL	943 903-360	Used to adapt BAT Rail products to N-style connector	802.11a/b/g/n
BAT Surge Arrestor f-f	943 903-371	Surge arrestor N jack to N jack; frequency range 2 GHz - 6 GHz; attenuation =< 0.2 dB	
BAT-ANT Protector m-f	943 903-373	RF Surge Arrestor, N male - N Female	802.11a/b/g/n
BAT-LAN Protector m-f	943 903-374	Ethernet Surge Arrestor, RJ45 - RJ45	802.11a/b/g/n