

**Product:** [BAT-C2-W03.01-F01-U01-A01](#)

Life Cycle Status: Discontinued

Compact WLAN Client and AccessPoint with 11ac technology and rapid roaming.



### Product Description

The BAT-C2's compact design and low weight are unprecedented in its class of ruggedized industrial WLAN devices. It is optimized for integration either into mobile units or stationary machines. When used as a mobile client it delivers fast roaming at an enterprise security level. When used stationary it allows for simple integration and automatic control of its AccessPoint functionality to deliver wireless access locally around a machine.

### Technical Drawing



### Technical Specifications

#### Product description

Type:	BAT-C2-W03.01-F01-U01-A01
Name:	BAT-C2 China
Part Number:	942249003
Port type and quantity:	1 Port: 10/100 BASE TX
Radio protocol:	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac

## Product Life Cycle

Life Cycle:	Discontinued - the product is no longer manufactured
Discontinuation Announcement Date:	2023-12-12
Last Order Date:	2024-06-01
Last Delivery Date:	2024-10-01
Last Service Date:	2029-12-01

## More Interfaces

WLAN Antenna:	2x RP-SMA Female Socket
Ethernet:	M12 D-Coded Socket Female
Power Supply:	M12 A-Coded Socket Male

## Power requirements

Power Loss Buffer:	min. 10 msec
Operating Voltage:	12 VDC ... 24 VDC (nominal), 9.6 VDC .. 32 VDC (max tolerances)

## Software

Software features:	Filesystem to store custom data, QoS, QoS based on IP or Ports, GRE, MAC filter
Management:	Web Interface (HTTPS), IPv4, IPv6, Filesystem to store custom data, SNMP v1/v2/v3
Diagnostics:	DNS, Routing, System Log, Ping, Traceroute, Syslog
Configuration:	DHCP client, DHCP Server, Extendable via custom Python Scripts
Security:	IPSec, Firewall, User Permission Management
Routing:	Static, RIP, OSPF, 1:1 NAT, Port Forwarding

## Ambient conditions

MTBF (Telecordia SR-332 Issue 3) @ 25°C:	1 207 342 h
Operating temperature:	-40+70 °C
Relative humidity (non-condensing):	1-95 %

## Mechanical construction

Dimensions (WxHxD):	102 mm x 72 mm x 34.5 mm
Weight:	140 g
Housing:	Plastic (PC+ABS), fire safety UL 94 V-0
Protection class:	IP65 (when using matching connectors)

## Mechanical stability

IEC 60068-2-6 vibration:	5 Hz ... 8,4 Hz with 3.5 mm Amplitude; 8.4 Hz ... 150 Hz with 1 g
IEC 60068-2-27 shock:	11 g at 11 ms

## EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD):	4 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field:	20 V/m (80 MHz - 1000 MHz), 10 V/m (1GHz - 3 GHz), 10 V/m (3 GHz - 6 GHz)
EN 61000-4-4 fast transients (burst):	2 kV power line, 1 kV data line (shielded)
EN 61000-4-5 surge voltage:	power line 1 kV (line/earth), 0,5 kV (Line/line); data line 1 kV (shielded)
EN 61000-4-6 Conducted Immunity:	10 V (150 kHz - 80 MHz); 1 kHz, 80 % AM

## EMC emitted immunity

EN 55032:	Class A
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## Approvals

Basis Standard:	SRRC CMITT, We certify that CCC is not required
Safety of industrial control equipment:	EN 61131

## Reliability

Guarantee:	60 months (please refer to the terms of guarantee for detailed information)
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## WLAN Access Point

Access Point Functionality:	Yes
Security:	WPA/WPA2 Personal PSK

## WLAN Client

802.11w - PMF:	Yes
Client / STA Functionality:	yes
Network Modes:	1:1 MAC Adoption, Bridging, NAT + Masquerading
Roaming Thresholds:	Yes
Security:	IEEE 802.1X - FAST, IEEE 802.1X - LEAP, IEEE 802.1X - PEAP, IEEE 802.1X - TLS, IEEE 802.1X - TTLS, Open, WEP, WPA/WPA2 Enterprise Radius 802.1X, WPA/WPA2 Personal PSK

## WLAN Output Power

WLAN technology	Power load
Minimal Output Power	5 dBm
Granularity steps	1 dB
802.11b, 1 Mbps	16±2 dBm
802.11b, 11 Mbps	16±2 dBm
802.11g, 6 Mbps	14±2 dBm
802.11g, 54 Mbps	14±2 dBm
802.11a, 6 Mbps	14±2 dBm
802.11a, 54 Mbps	14±2 dBm
802.11n, MCS0, 2.4 GHz	13±2 dBm
802.11n, MCS7, 2.4 GHz	13±2 dBm
802.11n, MCS0, 5 GHz	13±2 dBm
802.11n, MCS7, 5 GHz	13±2 dBm
802.11ac, MCS8, 5 GHz	13±2 dBm
802.11ac, MCS9, 5 GHz	11±2 dBm

## WLAN Typical Receive Sensitivity

802.11n, 2.4 GHz, 20 MHz, MCS0:	-93 dBm
802.11n, 2.4 GHz, 20 MHz, MCS7:	-74 dBm
802.11n, 5 GHz, 20 MHz, MCS0:	-92 dBm
802.11n, 5 GHz, 20 MHz, MCS7:	-74 dBm
802.11ac, 5 GHz, 20 MHz:	-70 dBm

## WLAN Approvals

WLAN Approvals	Applicable
ETSI RED CE	-
ETSI - EN 300 328	-
ETSI - EN 301 893-1	-
ETSI - EN 301 489-1	-
ETSI - EN 301 489-17	-
ETSI - EN 302 502 (5.8 GHz)	-
ETSI - EN 300 440 (SRD)	-
FCC	-
SRRC	Yes

## WLAN Countries

WLAN AccessPoints/Clients	Applicable	WLAN AccessPoints/Clients	Applicable
Australia	-	Japan	-
Austria	-	Latvia	-
Belgium	-	Lithuania	-
Brazil	-	Luxembourg	-
Bulgaria	-	Malaysia	-
Canada	-	Malta	-
China	Yes	Mexico	-
Croatia	-	Netherland	-
Cyprus	-	New Zealand	-
Czech Republic	-	Philippines	-
Denmark	-	Poland	-
Estonia	-	Portugal	-
Finland	-	Romania	-

France	-	Singapore	-
Germany	-	Slowakia	-
Great Britain	-	Slowenia	-
Greece	-	South Korea	-
Hungary	-	Spain	-
India	-	Sweden	-
Indonesia	-	Thailand	-
Ireland	-	USA	-
Italy	-	Vietnam	-

#### WLAN Channels

WLAN Approvals	Applicable
2.4GHz	1-11, 12, 13
Supported Bandwidth, 5GHz	20/40/80 Mhz
5GHz (U-NII-1), 36-48	-
5GHz (U-NII-2a), 52-64	-
5GHz (U-NII-2c), 100-116	-
5GHz (U-NII-2c), 120-128	-
5GHz (U-NII-2c), 132-140	-
5GHz (U-NII-2c), 144	-
5GHz (U-NII-3), 149-165	Yes

#### Scope of delivery and accessories

Accessories to Order Separately:	Ethernet Cable M12-RJ45, Ethernet Cable M12-M12, 942 046-001 BAT-ANT-RSMA-2AGN-R
Scope of delivery:	1x Device, 1x General Safety Instructions, 1x Power Connector

#### Further Instructions

Product Documentation:	<a href="https://www.doc.hirschmann.com">https://www.doc.hirschmann.com</a>
Certificates:	<a href="https://www.doc.hirschmann.com/certificates.html">https://www.doc.hirschmann.com/certificates.html</a>
Software Download:	<a href="https://hirschmann-support.belden.com/en-US/downloads">https://hirschmann-support.belden.com/en-US/downloads</a>
Technical Information:	<a href="https://hirschmann-support.belden.com/en/kb/bat-c2">https://hirschmann-support.belden.com/en/kb/bat-c2</a>

#### History

Update and Revision:	Revision Number: 0.155 Revision Date: 03-25-2025
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#### Variants

Item #	Type
942249003	BAT-C2 China

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