HIRSCHMANN
A BELDEN BRAND

Product: BAT-C2-W04.01-F01-U01-A01

Life Cycle Status: Limited Std Warranty Period

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 Overview

Type:	BAT-C2-W04.01-F01-U01-A01
Name:	BAT-C2-W04.01-F01-U01-A01
Part Number:	942249004
Port Type and Quantity:	1 Port: 10/100 BASE TX

Product Life Cycle

Life Cycle:	Limited Std Warranty Period - the product is no longer manufactured but service may be available for active equipment
Discontinuation Announcement Date:	2023-12-12
Last Order Date:	2024-06-01
Last Delivery Date:	2024-10-01
Last Service Date:	2029-10-01

General Information

Scope of delivery:	1x Device, 1x General Safety Instructions, 1x Power Connector

More Interfaces

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

Radio technology

Modules

Description	Radio Protocol	Access Point Functionality	Client / STA Functionality
Module 1	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac	Yes	yes

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 (Telcordia 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
IP Protection Rating:	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

Approvals

Basis Standard:	ACMA RCM

Reliability

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

WLAN Access Point

Channel Restriction if Client is Deactivated:	1-13, 36-48, 149-165
Security:	WPA/WPA2 Personal PSK

WLAN Client

802.11w - PMF:	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

Accessories

Accessories to Order Separately:	Ethernet Cable M12-RJ45, Ethernet Cable M12-M12, 942 046-001 BAT-ANT-RSMA-2AGN-R

Further Instructions

Product Documentation:	https://www.doc.hirschmann.com
Certificates:	https://www.doc.hirschmann.com/certificates.html
Software Download:	https://my.belden.com/s/downloads
Technical Information:	https://hirschmann-support.belden.com/en/kb/bat-c2

History

Update and Revision:	Revision Number: 0.101 Revision Date: 02-20-2026

Variants

Item #	Type
942249004	BAT-C2-Australia

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