

AP3400 Railway WiFi 6 Access Point

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Product Information AP3400
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High-Performance WiFi 6 Access Point for Railway Applications with Dual Radio WLAN-ax, PoE+ Power Supply, REST API and EN 50155



Key Features

WiFi / WLAN	Dual Radio concurrent 2.4/5GHz IEEE 802.11ax (Wi-Fi 6)
Ethernet	2x 2.5 Gigabit Ethernet
Power	PoE+ (IEEE 802.3 at)
Temperature	-40 °C to +70 °C EN 50155 class OT4/STO
Compliance	CE (RED), UKCA (RER), Railway (EN50155, EN45545)

Product Description

The AP3400 is a powerful and robust Access Point designed for use in rail environment. It complies with the railway regulations EN50155 and EN45545 to withstand high vibrations and extreme temperatures (-40°C to +70°C)

The AP3400 is equipped with dual radio WiFi 6 for up to 200 clients. The two radio modules allow it to operate on both the 2,4GHz and 5GHz bands at the same time. Furthermore it has two 2,5 Gigabit Ethernet ports. The Access Point can be powered over PoE+ (Power over Ethernet) via M12 connection point B1.

An elegant and convenient way to configure the AP3400 is via the NetModule Router Software, through the NetModule routers. The router therefore acts as a provisioning controller for the AP3400. The NetModule Router Software comes with a comprehensive network feature set. Furthermore, the AP3400 can also be configured via our Connectivity Suite, the REST API interface or Device Web-UI.

Applications

- Passenger WiFi
- Infotainment



Specifications

2x WiFi / WLAN

Standard

IEEE 802.11a/b/g/n/ac/ax (Wi-Fi 6)
Dual Radio concurrent 2.4/5GHz,
2x2 MU-MIMO
DFS support for ETSI and FCC:
- U-NII-1 (5180 - 5240)
- U-NII-2a (5260 - 5320)
- U-NII-2c (5500 - 5720)
- U-NII-3 (5745 - 5825)

Bit rate (max)

573Mbps (2.4GHz) / 1201 Mbps (5GHz)

Modes

Access Point or Client (at least 100 clients per radio)

Connector

2x QLS-f

2x Ethernet

Standard

2500Base-T, Auto MDIX

Speed

10 / 100 / 1000 / 2500 Mbps

Connector

B1: M12 socket, X-coded
B2: M12 socket, X-coded

System

Core

1.8 GHz quad core, 512 MB RAM,
512 MB flash

Module Slots

1x miniPCIe (PCIe + USB)

Power

Input voltage

PoE+

PoE Standard

IEEE 802.3 at

Maximal Power Consumption

15 W

Connector

B1: M12 socket, X-coded

Productfunction

Device Management

NetModule Connectivity Suite,
NetModule Router with Service «Access
Controller WLAN-AP»,
REST API,
Web -UI

Other

Mounting

Brackets

Dimensions

Width 200 mm x height 40 mm x depth
133,5 mm

Weight

700 g

Environment

Operating Temperature

-40 °C to +70 °C
EN 50155 class OT4/STO

Ingress Protection Level

IP40

MTBF

373'000 h / 43.6 years according
SN29500 at environmental
temperature 40°C

Scope of delivery

Device, General safety instructions

Software

Features

Multi-SSID's, Encryption: Open WPA
1/2/3-Personal, WPA 1/2/3-Enterprise,
Hide SSID, Isolate Clients, RADIUS
authentication,
Fixed fallback IP, VLAN, Static Routes,
Port Forwarding, VPN(WireGuard)
DHCP Server/Client, NTP Client, Device
Discovery, Automatic Firmware-update,
REST API, HTTP/HTTPS, SNMP 2/3 and
SNMP Traps, Command Line Interface
(SSH and Telnet),
Monitoring and Diagnostics Integrated
(Device Discovery, Site Survey, Ping,
Traceroute, Log View, Speedtest)

Qualifications

Compliance

CE according to 2014/53/EU (RED),
UKCA according to Radio Equipment
Regulations 2017 No. 1206 (RER),
Railway according to EN 50155 (class
OT4/STO) and fire safety EN 45545-2,
EBA EMV O6,
Vehicle according to UN ECE R10
and R118, 1097/2006/EG (REACH),
2011/65/EU (RoHS)

Order code

AP3400-2Wax