

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 and EN 50155



Key Features

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

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 up to 300 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, which provide secure connections and are able to endure high vibration and mechanical shocks.

An elegant and convenient way to configure the AP3400 is via the NetModule Router Software, from the NM routers. The router therefore acts as a provisioning controller for the AP3400. The NetModule Router Software, which is enhanced for the AP3400, comes with a comprehensive network feature set. Alternatively, the AP3400 can also be configured via web GUI or the REST API.

Applications

- Passenger WiFi
- Infotainment

Specifications

1x WiFi / WLAN

Standard

IEEE 802.11a/b/g/n/ac/ax (Wi-Fi 6)
Dual Band concurrent 2.4/5GHz,
2x2 MU-MIMO
DFS and TPC 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

Client or Access Point (at least 150 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, 4 GB flash

Module Slots

1x miniPCIe (PCIe + USB)

Power

Input voltage

PoE+

PoE Standard

IEEE 802.3at

Maximal Power Consumption

15 W

Connector

B1: M12 socket, X-coded

Productfunction

Configuration

Web-based Management
Rest API
Via NetModule Router Software
or via Connectivity Suite

Other

Mounting

Brackets

Dimensions

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

Weight

500 g

Environment

Operating Temperature
-40 °C to +70 °C

Ingress Protection Level

IP40

MTBF

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

Qualifications

Compliance

CE according to 2014/53/EU (RED),
2011/65/EU (RoHS), Railway according
to EN 50155 class OT4/ST0, EN 45545,
1097/2006/EG (REACH)

Standards

EN 50155, EN45545-2, EN55032,
EN55035, EN62311, EN62368-1,
EN50121-3, EN61000-6-2,
EN61000-6-3, EBA EMV 06,
EN301 489-1, EN301 489-17,
EN 300 328, EN 301 893, EN 302 502

Order code

AP3400-2Wax