

AP3400 Railway WiFi 6 Access Point

06.07.2022, ©NetModule AG
Product Information AP3400
Errors reserved

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 Radio concurrent 2.4/5GHz IEEE 802.11ax (Wi-Fi 6)
Ethernet	2x 2.5 Gigabit Ethernet
Power	PoE/PoE+ (IEEE 802.3 at)
Temperature	-40 °C to +70 °C EN 50155 class OT4/STO
Compliance	CE (RED), 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. Alternatively, the AP3400 can also be configured via our Connectivity Suite, REST API or 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 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 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

Configuration

Connectivity Suite
NetModule Router Software
REST API
Web UI

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