



Railway Access Point

The perfect solution for applications requiring **high durability** and **high bandwidth**

WiFi 6



Access Point (AP) EAP-3000

EN 50155, EN 50121-3-2, EN 50124-1, EN 50125-1, EN 61373, EN 45545-2, TSI LOC&PAS, CLC/TS 50701



Passenger Captive Portal



Onboard WiFi for Passengers



Online Diagnostics



Multimedia entertainment



Ethernet 1 GbE

Key Features:

- 2x LAN 1 GbE Ethernet
- Support for WiFi 6
- Bypass LAN
- MIMO 4x4
- CPU MediaTek MT7986 (Filogic 830) ARM A53 + MT7531A



Manufactured in Poland



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SPECIFICATION

EAP-3000 is a powerful access point designed for applications in the railway industry and demanding industrial environments. It is perfect for applications where high durability and high bandwidth are key.

In combination with other devices from the ELLT series, it enables the integration of complete on-board systems, such as HotSpot WiFi and communication modules for passengers and service in the metro, railway or tram, ensuring fast and smooth data transfer.

The device uses WiFi 6 technology and multi-stream MIMO, which guarantees high bandwidth and reliability of the connection.

It is certified in accordance with the EN 50155 standard, which means meeting strict requirements regarding the environment, fire protection, electromagnetic compatibility (EMC), as well as resistance to vibration, shock and protection against ingress at the IP65 level.

WiFi / WLAN

WiFi 802.11 a/b/g/n/ac/ax | WiFi 6
4x4 2.4 GHz WiFi (MT7975N) + 4x4 5 GHz WiFi (MT7975P)
Bandwidth up to 160 MHz
Client or Access Point
Data rate 6Gbps+

Connector | 4x QMA female 2.4GHz, 4x QMA female 5GHz

CPU

MediaTek MT7986 (Filogic 830) Quad-core ARM Cortex A53 + MT7531

RAM

DDR4 | 2GB

Storage

8 GB eMMC flash
128 MB SPI NAND

Operating system

OpenWRT

2x Ethernet

2x Gigabit Ethernet (optional bypass)

Standards | 10/100/1000 Mbps

Connector | 2x M12X-Code 8 pin (female)

Configuration Reset | Key Switch

Physical Specification

Dimensions

220 mm x 180 mm x 62 mm (± 1 mm)

Spacing of mounting holes

194 mm x 160 mm (50 mm, 60 mm, 50 mm)

Weight | 1.5 kg (± 0.2 kg)

Environment

Operating Temperature | -25 ÷ 70°C

Storage Temperature | -40 ÷ 85°C

Standard | EN 50155 OT4 Class

Ingress Protection Level | IP65

Compliance

EN 50155, EN 50121-3-2, EN 50124-1, EN 50125-1, EN 61373, EN 45545-2, TS1 LOC&PAS, CE (EMC, RED, RoHS)

Power Supply

Input Voltage | 16.8 ÷ 36 V DC

Rated Voltages | 24 V DC

Max. power Consumption | 24 W

Connector | M12 A-Code 4 pin (men)

Software

General | OTA update, HTTP(S), API RPC & WebGUI

Remote Management | SSH, HTTP/HTTPS

Wireless LAN | Access Point, Client Mode, Encryption: Open, WEP, WPA1/2/3-Personal, WPA1/2/3-Enterprise. AP Mode: Multi-SSIDs, Encryption: Open WPA1/2/3-Personal, WPA1/2/3-Enterprise, Hide SSID

Services | DHCP Client/Server, DNS Caching Server, NTP Client/Server, DynDNS, SSH Server, HTTP/HTTPS Server, IPv6 for WAN

Routing | VRRP, PPPoE

VPN | OpenVPN, IPsec (IKEv1 and IKEv2), PPTP, GRE, L2TP

Firewall | Stateful firewall, connection tracking, NAT, NAT, masquerading, bridge filtering, Address translation (based on SRC and DST ports)

Troubleshooting | Logging, Ping, Traceroute, Tcpdump