IP Radio Unit V4 - I

All-in-one Radio-over-IP solution with built-in TETRA modem

- Standalone Radio-over-IP system — no server required
- Integrated Airbus TETRA modem — no external radio required
- Unlimited clients with multicast signaling and low-latency audio
- Compact 3U design – up to 8 units per 19" rack with LEDs for operational feedback
- Dual LAN interfaces for critical infrastructure redundancy
- Web-based configuration, LAN firmware updates and SNMP monitoring

The IP Radio Unit V4-I is a compact, **all-in-one device** designed to seamlessly bridge professional TETRA radio communications with IP-based networks. Developed to meet the operational needs of BOS organizations (public safety and emergency services), it **simplifies deployment** while maximizing rack space efficiency.

The IPRU V4-I offers **essential interfaces and monitoring features for reliable operation**. A FME connector enables connection to an external antenna, while status LEDs indicate the operational state of the radio and network. A USB-C interface provides access for programming and control output.

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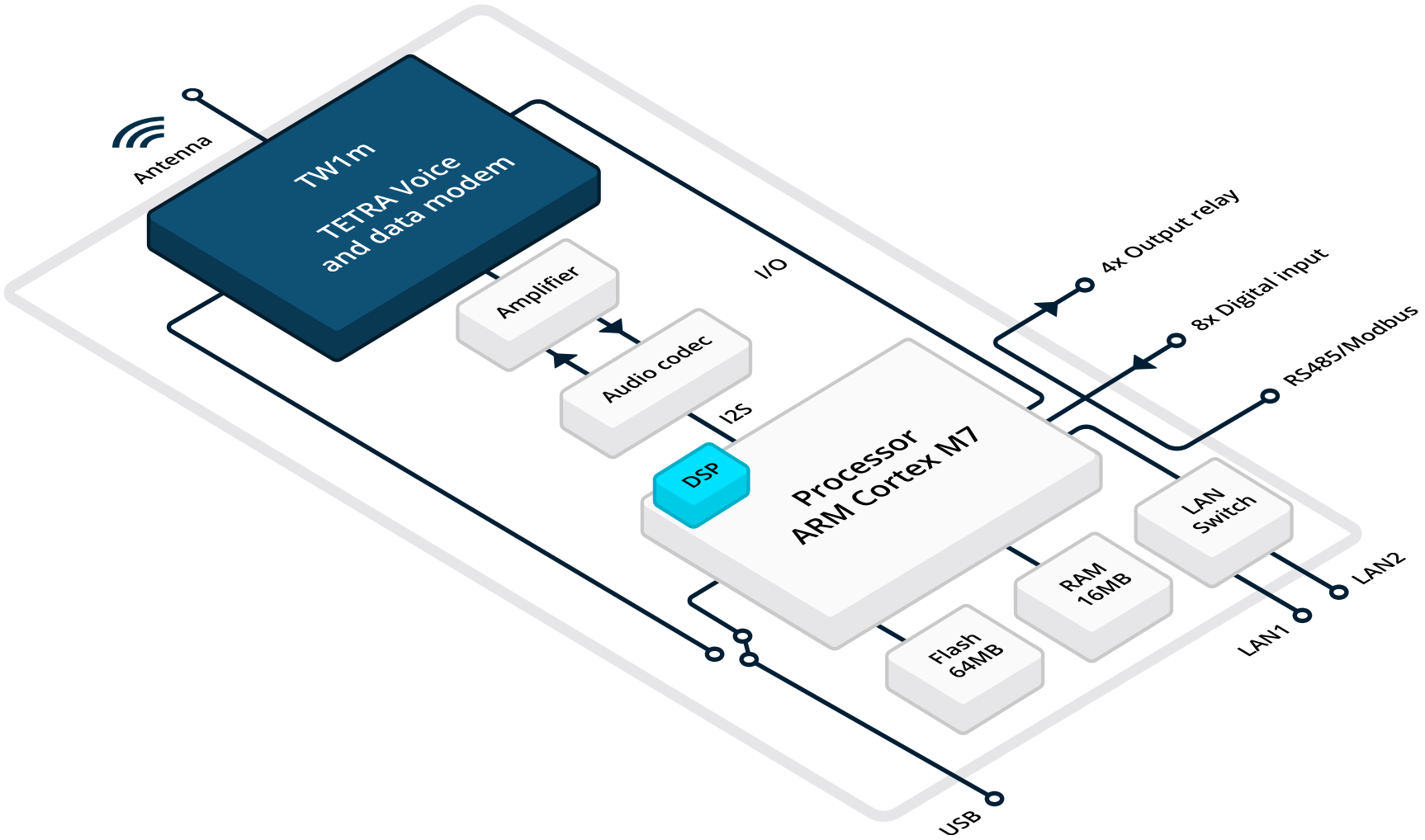

The integrated Airbus TETRA modem eliminates the need for external radio terminals, reducing cabling complexity and minimizing installation footprint. Its streamlined 3U design allows up to eight V4-I units with power supplies to be installed in a standard 19" subrack, offering a **high-density, scalable solution** for mission-critical environments.

Audio communication is handled via multicast transmission using the G.711 codec, ensuring low-latency and **efficient audio transport**. Signaling is based on an extended SIP protocol, also multicast-enabled, allowing simultaneous interaction with multiple clients. The system supports **sending and receiving short data messages**, including SDS, status, and FMS, enabling robust command and control integration. Configuration and management of the IP Radio Unit are performed through a web-based interface, providing easy and intuitive access to all device settings. Firmware updates can be deployed effortlessly over LAN, while built-in SNMP support ensures **smooth integration** with existing IT monitoring systems.

Technical specifications	
Power supply	Connector: DIN41612 15pol Voltage: 12-24V DC Consumption: 12W
Ethernet port	2 x RJ45 10Mbps and 100Mbps with auto negotiation (front)
Antenna connector	FME male (50 Ω), supporting TETRA frequency bands 380–400 MHz and 410–430 MHz
Service port	USB-C
LED indicators	Power, LAN, Radio Status, Radio Rx, Radio Tx
Modem	Airbus TW1m
Dimensions (HxWxD)	50 x 130 x 192mm
Weight	730g
Storage temperature	-25°C to +70°C
Operating temperature	-15°C to +60°C
EMC	EN 55032 Kl. A:2015 + A1:2020 + A11:2020 EN IEC 61000-6-2:2019 EN 55035:2017 + A11:2020 EN 301 489-1 V2.2.3

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