



IP Radio Unit V3.2

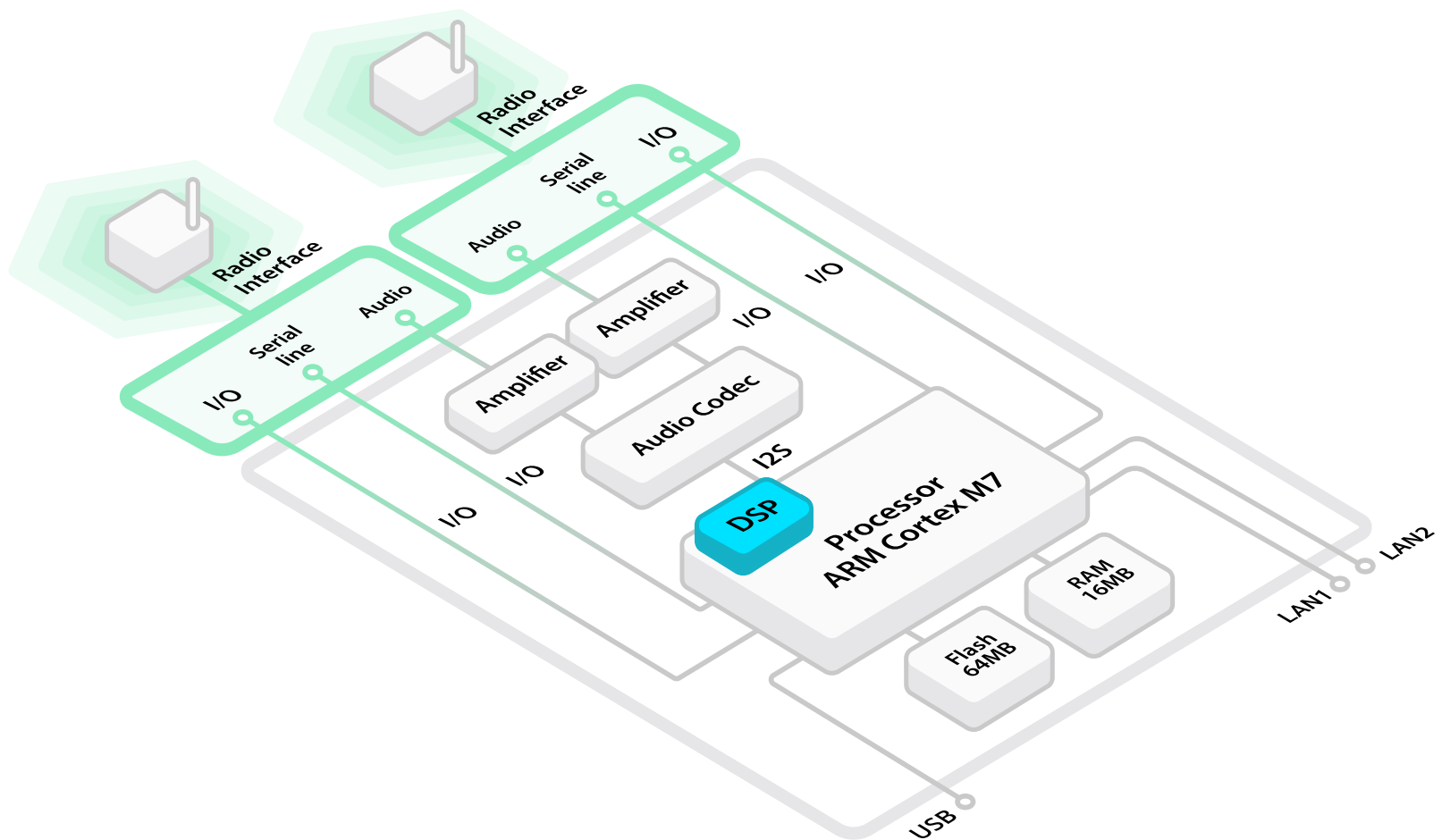
Radio-over-IP bridge for TETRA, TETRAPOL,
and analog radio systems

- ✓ Standalone Radio-over-IP system — no server required
- ✓ Supports 2 radios simultaneously (analog, TETRA, TETRAPOL)
- ✓ Unlimited clients with multicast signaling and low-latency audio
- ✓ Multiple housing options (19" subrack, compact 10" & 19" enclosures) with LED status indicators
- ✓ Dual LAN interfaces for critical infrastructure redundancy
- ✓ Web-based configuration, LAN firmware updates and SNMP monitoring

The IP Radio Unit V3.2 connects digital and analog radio terminals to IP networks, supporting the operational demands of BOS organizations (public safety and emergency services). Designed for high-reliability communication environments, it enables **seamless integration of professional radio systems** into IP-based infrastructures.

The IPRU V3.2 is offered in **multiple housing configurations** to suit various installation scenarios. These include a model for integration into standard 19" subracks, as well as compact 10" and 19" enclosures pre-assembled with power supply and antenna connectors. All variants feature housings suitable for wall mounting, and each unit is equipped with DIN mounting frames to securely hold supported radios. Installation is straightforward: prepared cables are plugged into the radio, which is then locked into the mounting frame for a secure and stable fit. The unit supports up to **two radio terminals**.





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: MULTICOMP 2MJ-0402A120 Voltage: 10-15V DC Consumption: 6W
Ethernet port	2 x RJ45 10Mbps and 100Mbps with auto negotiation (front)
Radio connector	2x HD15 plug (Radio 1 and Radio 2)
Service port	USB-C
LED indicators	Power, LAN, Radio Status, Radio Rx, Radio Tx
Supported radios	Motorola MTM800, Sepura SRG/SRM, Cassidian, Motorola/Bosh FuG, Ascom FuG, Radiodata FuG, Teledux, GCD, Tetrapol
Dimensions (HxWxD)	50 x 130 x 192mm
Weight	550g
Storage temperature	-25°C to +70°C
Operating temperature	-5°C to +60°C
EMC	EN 55032 cl. A:2015 + A11:2020 EN 55035:2017 EN 61000-3-2:2014 EN 61000-3-3:2013

