



TELEFUNKEN
RACOMS

Defense

Military IP Radio – MIPR

Next generation tactical IP radio delivering high-speed broadband data communication to the battlefield



Accurate real-time information for all branches of the fighting forces is critical for mission success. Relevant and precise intelligence allows the modern warfighter to quickly formulate effective responses in multiple operational scenarios. The advent of net-centric applications such as tactical internetbased communication and battle management systems are driving the need for faster, robust and more reliable data communications.

The Military IP Radio (MIPR) from TELEFUNKEN RACOMS is the next generation of tactical IP radios.

MANET configuration for mobile units

MIPR provides secure broadband communication for tactical maneuvering units as well as combat support. This includes point-to-point, point-to-multipoint or mobile ad-hoc network (MANET). MIPR supports ultra-high bandwidth of up to 13.3 Mbps for the transmission of highresolution video and images.

Meeting the requirements of the modern battlefield

MIPR's security, small form-factor, ultra-high bandwidth and advanced capabilities are designed to meet the requirements of today's battlefield.

Technical Data	
▶ Ultra-high bandwidth	Up to 13.3 Mbps, delivering real-time high-resolution video, images, data and voice
▶ Blue force tracking	Integrated GPS-Receiver with optional Interface to external GPS-Receiver
▶ Adaptive modulation	OFDM modulations (QAM4, QAM16 and QAM64) for high data rates over difficult channels and GMSK modulation for long-range communication
▶ Adaptive transmission power	Up to 10 watts
▶ Flexible bandwidth	Software-configurable channel bandwidth of 400 kHz to 4 MHz
▶ Secure communication	Advanced encryption algorithms (utilizing AES-256), jammer rejection, bit spreading and frequency-hopping
▶ Varied operational conditions	Supports both LOS and NLOS connectivity and operation during mobility at speeds of up to 300 Km/h
▶ Voice over IP (VoIP) radio	Full-duplex voice communication with active noise reduction, selective calling, priority break-in and the capability to listen to four voice groups simultaneously
▶ Small form-factor	Compatible with multiple platforms as well as vehicular and manpack configurations (212 mm x 75 mm x 253 mm); includes detachable remote control panel
▶ Flexible frequency range	L-Band with optional bands – U/S/C

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