

ROTEK GSM-R OPH Handset



Model: ROTEK RTK-OPN

Operational Purpose Handheld (OPH) for GSM-R Railway Networks

The ROTEK RTK-OPN is an operational purpose handheld (OPH) designed for the needs of railway maintenance and operations personnel. It offers voice and data communication over private GSM-R railway networks with a user interface that provides operations-specific functions for quick, efficient communication.

Designed Specifically For Railway Use

The RTK-OPN handheld allows railway operators to equip personnel with a single device that meets essential railway functions such as Voice Group Call over GSM-R as well as user-friendly mobile phone features.

An enhanced loudspeaker makes this handheld suitable for use in noisy work environments, while the rugged design ensures years of reliable operations in severe temperatures, shocks and vibrations, dust, and high humidity.

The handhelds come with features specific to railway operations such as: short operational messages, quick volume management, push-to-talk (PTT) in point-to-point mode, quick group call dialing and Roger beep.

Dedicated buttons allow quick access to emergency call, PTT and customizable functions. The handset also supports latest generation railway communication features such as OTDI, late entry, and frequency hopping in group call.

KEY FEATURES

- Designed specifically for efficient railway operational communications
- Highly reliable, long-lasting performance
- Functions conveniently as a handheld or integrated with a train kit

APPLICATIONS

Private network communications for railway workforce:

- Voice services with priority control
- Emergency call services
- Voice group calls and broadcast system
- Ground to train communications
- Track-side communications



SPECIFICATIONS

HANDESET USER FEATURES	High resolution colour screen for use in sunlight (65,536 colors screen, 176 x 220 pixels) MMS, SMS, Predictive text T9 Currency converter, calculator, alarm, timer WAP 2.0, M-services JAVA support Built-in data and fax modem Accelerometer option GPS option Remote Speaker Microphone with PTT, Volume adjustment, REC Media formats supported: BMP, JPEG, PNG, GIF animated, Midi, iMelody Wave, AMR Hi-Fi and polyphonic ringtones, downloadable screen backgrounds and ringtones
GSM-R FEATURES	ASCI (VGCS, VBS) REC eMLPP EIRENE Functional addressing Call confirmation
AIR INTERFACE	GPRS Class 10
DATA SPEED	Peak download rate: up to 85,6kbps Peak upload rate: up to 42,8 kbps
FREQUENCY BANDS	GSM: 900 and 1800 MHz GSM-R: 876 - 915 MHz for uplink, 921 - 960 MHz for downlink
APPROVALS	Regulatory: CE, RoHS Carrier & Railway: On demand IP Class: IP65
PERFORMANCE	Power: 2W
TEMPERATURE RANGE	-20 to +55°C
INTERFACES	USB: 1 Bluetooth
LOCATION SOLUTION	GPS option
BATTERY	Li-ion 2600mA Talk time: 7h50 Standby time: 450h
FORM FACTOR	Bar ruggedized, color screen, 176 x 220 pixels Weight: 230g with battery Size: 142 x 60 x 30 mm