

GSM-R Radio Module

MT6E-D



PRODUCT VARIANTS

MT6E-D	without front panel
MT6E-D/FPL	with front panel

DIMENSIONS / WEIGHT

Height Body	110 mm
Width Body	36.6 mm
Depth	169.9 mm
Weight	0.8 kg
Front panel	10 HP / 3 U

TECHNICAL DATA

GSM SERVICES

GSM Phase 2+ Teleservices

TS11: Telephony

S12: Emergency call

TS21: Short Message Service MT/PP

TS22: Short Message Service MO/PP

TS23: Short Message Service Cell Broadcast CBM

GSM Phase 2+ Bearer Services

BS24: 2.4 kbits T/NT, UID, 3.1 kHz, V110

BS25: 4.8 kbits T/NT, UID, 3.1 kHz, V110

BS26: 9.6 kbits T/NT, UDI, 3.1 kHz, V110

BS70: GPRS Bearer Service

BS71: EGPRS Bearer Service

EIRENE SPECIFIC FEATURES

Functional addressing

Call preemption and arbitration (eMLPP)

Location dependent addressing

HF CHARACTERISTICS

GSM-R operating frequencies 1710 to 1785 MHz / 1805 to 1880 MHz

LTE-Frequencies filtered¹ 1775.3 to 1782.3 MHz / 1870.3 to 1877.3 MHz
ARFCN: 838 to 872

Power transmission 4 W (DCS Power Class 3)

Sensitivity -102 dBm

RF filtering / Blocking properties Fulfills the railway-specific receiver requirements by adapting ETSI TS 102 933 V 2.1.1

¹ Frequencies/channels protected by SAW filter bank

TECHNICAL DATA

ENVIRONMENTAL CONDITIONS

Protection class	IP20 according to EN 60529
Vibration and shocks	according to EN 50155
EMC	according to EN 50121-3-2 and EN 50155

CLIMATIC CONDITIONS

Operating temperature	-25 °C to 70 °C
Storage temperature	-40 °C to 85 °C
Maximal gradient ²	± 1 °C/min
Relative humidity	acc. to EN 50155

ELECTRICAL PROPERTIES

Operating voltages	12 VDC (11.7 to 12.9 V) 5 VDC (4.8 to 5.25 V)
Average power consumption	6 W with 12 VDC 5 W with 5 VDC
Maximum power consumption	0.5 A with 12 VDC 1 A with 5 VDC
Power consumption in stand-by mode (idle mode)	0.070 A with 12 VDC 0.175 A with 5 VDC
Power consumption (total)	1.75 W (stand-by)

² of ambient temperature