



# GSM-R GATEWAY

- Gateway for connecting the integrated dispatcher system Radiovoice 3 into GSM-R network
- Fully compliant with EIRENE specifications
- Optional of power supply: either 230 V AC or 48 V DC



### General description

GSM-R gateway is a separate equipment enabling communication between GSM-R network and Radiovoice 3 communication system on the level of interconnection with the GSM-R infrastructure system. It meets fully EIRENE (European Integrated Railway Radio Enhanced Network) requirements – it provides routing of the voice and state services.

### Basic technical description

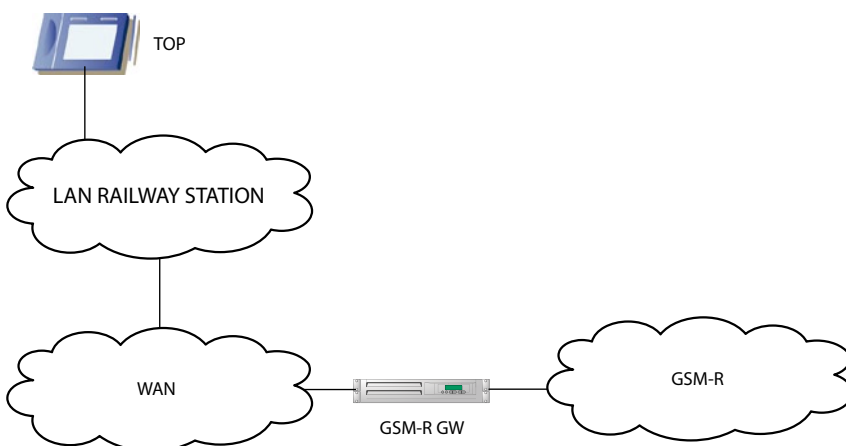
The gateway is built-in in the case designed for installation to 19" rack, of height 1,5 U and depth 30 cm (without connectors), the gateway weight is 3 kg. It can be power supplied from the 230 V 50 Hz network

or 48 V DC. Its cooling is active – by ventilators.

It is supposed that in each separate GSM-R system (e.g. railway mainline corridor) the gateway will be installed in the location allowing direct connection between the GSM-R infrastructure and the gateway on the level of PRI interface. Subsequent interconnection between the gateway and the Radiovoice system is realized through Ethernet. Such an approach to the GSM-R gateway installation reduces requirements for data connections between individual GSM-R systems, compared to a solution with one centralized gateway. In addition it allows for the traffic distribution

between gateways and ensures their redundancy.

The gateway allows up to 30 simultaneous calls to the GSM-R network, also allows recording of ongoing communications.



Block diagram of interconnecting the gateway with environment



## Basic technical parameters

Dimensions	19" module, height 1,5U and depth 30 cm (without connectors), width (without handles) 43 cm, depth 30 cm, height 6,5 cm
	GSM-R GATEWAY is designed for installation into 19" distributor (rack), vent holes on the rear and side panels must not be covered
Weight	3 kg
Cover	IP20
Working temperature range	0 to 45 °C
Storage temperature range	-20 to 60 °C
Humidity	20 to 80 % non-condensing
Rated power supply	230 V $\pm$ 10 % 50Hz or optionally 48 V DC, power input max. 100 VA
Connectors	LAN (ethernet) – 2× RJ45
	230V intake – EURO plug
	230V intake – EURO plug
	USB 2.0 – 2×
	RS232 – RJ45 – serial console for administration
	PRI – RJ45 – for connecting into GSM-R system