

A RailIOS® Certified Device

Telecom Box

Small • Light • Scalable

The Telecom Box is The Signalling Company's multi-network gateway, providing access to GSM-R, 4/5G, GNSS (GPS) and FRMCS services. It is a RailIOS® compatible and certified device, mounting directly to the vehicle frame in any orientation and in any available space. Like its sister products, The Telecom box has a tiny installation footprint, minimal cabling and low energy consumption. It simplifies installation and maintenance, requires no cab redesign, and optimizes energy consumption.



Technical Specifications

General Performance

Parameter	Specification	Compliance -or- Reference Conditions
Operating System	RailIOS	
Network Options	GSM-R, GPRS, LTE, 5G, FRMCS / GPS	Telecom / GNSS
Design (Use) Life	20 Years	EN 50155 / L4
MTBF	805,123 Hours	EN 50126 RAMS
System Interfaces	4 x Fast Ethernet	
System Communication	Ethernet / TRDP	IEEE 802.1, IEEE
Antenna Interfaces	2 x 4G/GPS Coax, 2 x GSM-R Coax	



Electrical

Parameter	Specification	Compliance -or- Reference Conditions
Supply Voltage	24 VDC to 110 VDC	EN 50155
Power Consumption	20 W Typical / 70 W Max	
Power Interruption Class	Class S2, ≤10 ms	EN50155
Inrush Current	3 Amp	

Environmental

Parameter	Specification	Compliance -or- Reference Conditions
Operating Temperature	-25°C to +70°C	EN 50155 OT3 IP20
	-25°C to +55°C (option)	EN 50155 OT1 IP53
Ingress Protection	IP20 or IP53 (option)	EN 60529
Altitude	2,000 m Above Sea Level	EN 50155
Humidity	5% to 95% RH (non-condensing)	EN 50125-1 / Class A1
Shock and Vibration	Cat 1 Class B	EN 61373
Hazardous Substances	RoHS	Directive 2011/65/EU
Storage Temperature	-40 to +85 °C	EN 50125-1 / Class A1
Fire Resistance	Hazard Level 3	EN45545-2

Mechanical

Parameter	Specification	Compliance -or- Reference Conditions
Dimension	288.4 x 377 x 222 mm	W x D x H
Weight	15.4 kg	Operation / Storage
Mounting Orientation	Any. Direct Mounting.	No 19in Rack / No Special Tooling
Connector Types	Power : 2 x Amphenol	Military Grade : LJT MIL-DTL-38999
	Antennas : 4 x CoAx	
	Ethernet : 2 x Amphenol	
Enclosure Material	Aluminium and Inox (Steel)	

