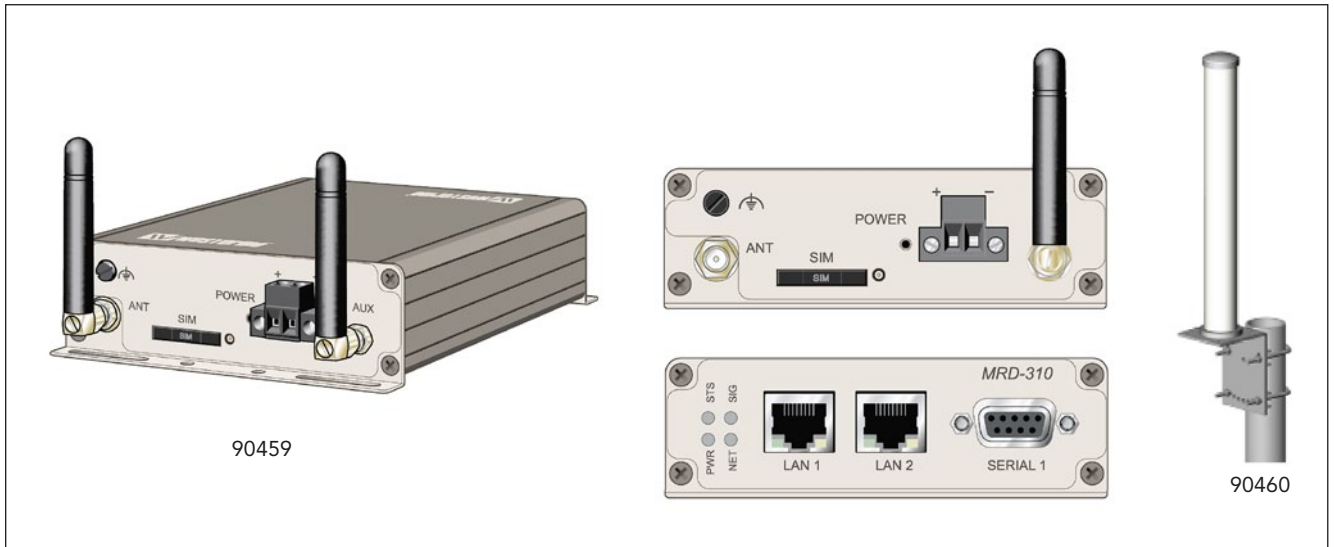


Intellinova® – 3G Router 90459



The SPM 90459 is a robust 3G router designed to provide remote connectivity across mobile networks. The unit features an on-board two port switch and a serial port providing the unit with versatile connection options. Together with the rugged enclosure, DIN-rail mounting and an operating voltage range spanning from 10 VDC to 60 VDC, the unit is designed for industrial applications in harsh environments.

The router supports a wide variety of wireless standards, GSM, GPRS, 3G UMTS, HSDPA, and HSUPA, thus providing

connectivity in as many applications as possible. Using High Speed Uplink Packet Access (HSUPA) the uplink capacity is 2 Mbit/s, together with the 7.2 Mbit/s downlink data making the unit suitable for even high data rate applications.

With the built-in two port 10/100 Ethernet switch and the RS-232 port the router easily allows devices to seamlessly connect over a vast geographical distance. The unit supports both packet and circuit switched mode, Serial to IP conversion, Modbus Gateway, DNP3 Level 1 Outstation, and Dial-Up modem emulation.

Technical specifications

Power

Voltage:	10 to 60 VDC
Rated current:	(max) 800 mA
Inrush current:	1.0 A
Polarity:	Polarity dependant, reverse polarity protection

Connection:	Detachable screw terminal
Connector size:	0.2 – 2.5 mm ² (AWG 24-12)
Shielded cable:	Not required

RS-232

Electrical specification:	EIA/TIA-232
Data rate:	300 bit/s – 230400 bit/s
Data format:	Data bits: 5, 6, 7 or 8. Stop bits: 1 or 2. Parity: none, odd or even. Flow control: none, software, hardware or both
Protocol:	Transparent, DNP3, Modbus, and modem emulation
Retiming:	Yes
Transmission range:	≤ 3 m
Connection:	9-pin D-sub female (DCE) and 9-pin D-sub male (DTE)
Shielded cable:	Not required

Antenna

Frequency bands:	850 MHz – 2100 MHz
Connection:	SMA

SIM

Electrical specification:	UICC/SIM 3 V and 1.8 V
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Ethernet

Electrical specification:	IEEE std 802.3 2000 Edition
Data rate:	10 Mbit/s, 100 Mbit/s, manual or auto
Duplex:	Full or half
Transmission range:	100 m / 328 ft
Connection:	RJ-45

Environmental

Temperature Operating:	-20 to +60°C (-30 to +70°C restricted operation)
Storage & Transport:	-40 to +85°C
Humidity :	0 to 90% relative humidity non condensing
Altitude Operating:	2000 m / 70 kPa

Packaging

Dimension W x H x D:	103 x 32 x 156 mm
Weight:	0.30 kg
Degree of protection:	IP 40
Cooling:	Convection
Mounting:	Horizontal on 35 mm DIN-rail

Options

90460	Omni-directional antenna for 3G router 90459
90451	Network cable for 3G router, shielded, 0.3 m
90457	Antenna cable with connectors, 0.3 m
90500	Antenna cable with connectors, 0.75 m
90458	Antenna cable with connectors, 10 m
93001	Bulkhead adapter for antenna cable
93002	Dust cap for bulkhead adapter 93001

