

SP-KPRM-5629 automotive communication module

Features

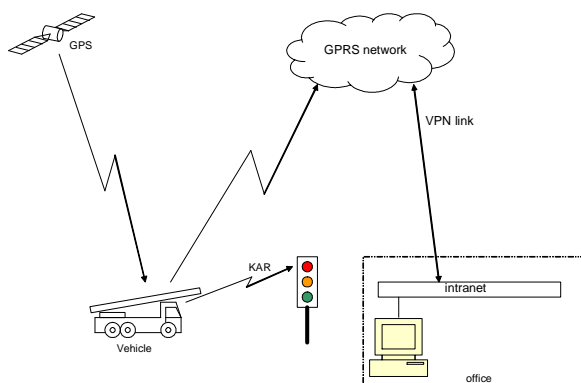
- KAR, short distance radio
- GSM/GPRS modem
- GPS receiver
- Ethernet interface
- Software downloadable
- RS-232 com port
- 3 Digital I/O's
- Wide input DC power supply
- Diagnostic LED's on front panel
- Ethernet link and activity indicator
- Robust aluminium case
- Easy installation and maintainability



Description

The KPRM module is the advanced solution for drivers of ambulances, police cars or fire engines to drive through traffic fast and safely. It incorporates an internal GPS receiver for location management and a so called KAR module. At the approach of a traffic light the KAR module sends a priority request message. The traffic light installation responds to this request by stopping all conflicting directions and giving priority to the direction of the vehicle by setting the corresponding light to green. The exact geographical locations where the message should be transmitted are stored in an onboard database. These trigger points are continuously compared with the received GPS information and the driven direction. When a match is found the priority request message is transmitted to the corresponding traffic light installation.

The content of the onboard database depends on the actual status and number of the traffic light installations that support this feature and therefore it can be updated through the GPRS modem, if necessary.



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Automotive

SP-KPRM-5629

Technical Specifications

SERIAL INTERFACES	:	1x	RS-232
	:	1x	Ethernet 100 Base-T
	:	2x	USB (Optional)
WIRELESS INTERFACES	:		GPS, 16 channel receiver
	:		GPRS modem
	:		Short distance radio modem KAR
DIGITAL INPUTS	:	2x	NPN or PNP, software selectable per input 24 Volt, 10 mA typ. One input is reserved for ODO interface
DIGITAL OUTPUTS	:	2x	Sourcing or sinking, software selectable per output Short circuit protected 24 Volt, 500 mA max. per channel.
SUPPORTED OPERATING SYSTEMS	:		Embedded Linux Winfows XP Embedded (Optional)
MEMORY	:		128 Mbyte Solid State Flash 64 Mbyte SDRAM
DISPLAY	:		6.4 inch colour touch screen (optional)
MECHANICAL			
Height	:		90 mm
Width	:		200 mm
Depth	:		230 mm
Connectors	:		all at the frontside
Case	:		Aluminium, black
ENVIRONMENTAL CONDITIONS			
Max. operating relative humidity	:		20 - 90 %, no condensation
Operating temperature	:		0 – 40 °C
Power supply requirements	:		9 – 36 Volt, 1 A typ. @ 24 Volt nominal
Ingress protection	:		IP20
	:		1 year
WARRANTY			

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