

CROSS RSU

Road Side Unit



CROSS RSU is a universal datalogger which enables to process and transfer collected data on the road. This unit is designed to support all telematic applications such as traffic monitoring, vehicle counting and classifying, road weather monitoring, or parking equipment management. It is an open platform for a wide range of varied traffic and road sensors, cameras, and communication modules.



Key benefits

- Compact variable device
- Multi-application ready
- Remote configuration, on-line access
- Wide range of operating temperatures
- Low-power solution

Key features

- Universal unit for varied traffic applications
- Open platform SW flexible
- Power supply outage resistant
- Solar power ready

General functions

- Traffic monitoring
- Vehicle counting and classifying
- Travel-time measurement
- Road weather station datalogger
- Control unit for parking devices

System

- System memory - eMMC/NAND flash
512 MB - 4 GB
- Data memory - MicroSD (external)
- RAM - min. 256 MB, max. 1 GB
- CPU - ARM Cortex A5/A7

Network interfaces

- 1x - Ethernet 10/100 Mb/s
- 1x - Ethernet 1 Gb/s
- 1x - GSM/3G/LTE (optional)
- 1x - GPS (optional)

Peripheral interfaces

- 4x - USB-2 (500 mA)
- 1x - USB-2 (2 A)
- 5x - RS232
- 2x - RS485
- 1x - CAN bus
- 1x - 1-WIRE
- 4x - digital inputs 5-24 V DC
(opto-isolated)
- 4x - digital outputs max. 24 V DC/100 mA
(opto-isolated)
- 1x - audio IN/OUT (stereo)
- 1x - HDMI OUT

Technical specifications

Dimensions	185 x 110 x 70 mm
Weight	0.5 kg
Power supply	12-24 V DC
Typical power consumption	5 W (max. 30 W)
Operational temperature range	-40 to +70 °C
Rail type	DIN rail