

## CiT® One RSU

The CiT One RSU is a state-of-the-art communication unit specially developed for vehicle-to-infrastructure (V2I) communication. Thanks to its powerful equipment, it enables real-time data processing.

The housing of the CiT One RSU is waterproof and made of plastic/aluminum, making it reliable even under difficult conditions.

Its most important features are:

- powerful NXP i.MX 8XLite processor
- © two cores with 1.2 GHz and one M4F core
- © 1 GB RAM
- 8 GB internal memory
- integrated hardware security module NXP SXF1800
- 100 Mbit/s Ethernet
- © IEEE 802.11p for V2X, LTE, IEEE 802.11a/b/g/n/ac
- Bluetooth 5.0
- Operating temperature range from -40 °C to +85 °C
- O Standards E1 ECE R10, CE
- RoHS compliant









The CiT One RSU offers a versatile solution for modern traffic technology, including intelligent transportation systems, autonomous vehicles, vehicles with special rights and public transport. Its seamless integration into V2X systems helps to improve traffic safety, optimize traffic flow and support innovative mobility solutions.

## **Technical details**



CPU Details NXP i.MX 8XLite

2 x Cortex A35 @ 1.2 GHz / 1 x Cortex M4F

RAM 1GB LPDDR4 with inline ECC

Internal storage 8GB eMMC

External storage USB 2.0

Security

Hardware security module NXP SXF1800 Hardware Security Module

Connectivity

Connector Plug 2 x M12 X-Code (8 pin) Ethernet

1 xPoE / 1 x ohne PoE

Network interface 2 x Ethernet

Speed of ethernet 100mbit

Traffic management OCIT-O interface

Service interface Ethernet-Service UI for configuration and commissioning

UART 1 internal

GPIO 2 internal inputs, 2 internal outputs

CAN 2 internal 100BASE-T1 1 internal

Radio interfaces

Mobile radio LTE

V2X IEEE 802.11p

WLAN/BT IEEE 802.11 a/b/g/n/ac, Bluetooth 5.0

GNSS u-blox MIA-M10Q

**Physical characteristics** 

Housing measurements of housing: 120×120×70 (mm)

measurements of mast housing: 80×160 (mm)

waterproof

Weight

Material plastic/aluminium

**Energy** 

Voltage range 48V POE+ (802.3at)

Conformity

Certifications and standard E1 – ECE – R10

CE

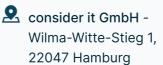
Environmental conditions waste clays RoHS compliant

Operating range temperature: -40°C - +85°C

humidity: 10% - 90% (non-condensing)

**Producer** 







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