

Cell2-Sky-Link-RS485-LTE Cell2-Sky-Link-RS485-LAN

Base station

Cell2-Sky-Link-RS485-LTE/LAN is a base station for Nokeval 433.92MHz Sky-transmitters and is part of Nokeval Sky product families.

It receives and buffers radio packets to its non-volatile memory and transmits them either over cellular mobile data networks or local area networks to Oviport cloud service, thus enabling reliable remote data acquisition from the field straight to the Oviport servers located in a data center.

Nokeval's third generation Sky radio devices use the Semtech LoRa modulation technique on the 433 MHz ISM band that allows unforeseen wireless range for battery powered transmitters.



Applications



Commercial Kitchens



Smart Industry



Construction

Product highlights and features

Wide operating temperature range

Reliability is increased by the backup batteries, which enable uninterrupted data acquisition also during external power interruptions

The base station is splashproof

No need to configure the device since most of the settings are already at their best defaults

Does not require attention after installation



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Base station



Environment

Storage temperature	-30...+60 °C, non-condensing
Operating temperature	-20...+50 °C
Operating humidity	5..95 %RH, non-condensing
Protection class	IP65, except power supply which is IP20
Enclosure material	Plastic (PC+ABS), silicon rubber
Compatibility	Nokeval Sky series 433 MHz ISM band transmitters. Ovaport network service.

433.92 MHz radio transceiver (Sky)

Description	Nokeval Sky protocol and radio transceiver using LoRa modulation
Antenna	Internal
Frequency	License-free 433.05 - 434.79 MHz
Power	max 10 dBm E.I.R.P
Open space range	Up to 10 km, dependent on configuration parameters
Indoor range	Up to several hundred meters, dependent on configuration parameters

Network connection, depending on the device type

Mobile	LTE Cat M1, NB1 bands 3, 8, 20 and 2G
	Internal chip antenna
	Micro size SIM card
Ethernet	10/100 Mbit/s auto-negotiation. DHCP client

Cloud connection

Compatibility	Nokeval Ovaport cloud service
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Power supply

Voltage	18...28 VDC
Current	< 500 mA

Other

Firmware update	Over-The-Air (OTA) firmware update
RS485 external connector pins	Modbus RTU or Nokeval SCL protocols