

NB2700 Vehicle Router

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Product Information NB2700
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Wireless Router with LTE, WLAN, 5-Port Ethernet Switch, GNSS and E-Mark



Key Features

Mobile / Cellular	1 - 2x LTE, UMTS, GSM
SIM	2x Mini SIM
WiFi / WLAN	1x Dual-band IEEE 802.11 a/b/g/n (Wi-Fi 4)
Ethernet	5x Fast Ethernet
IO	4x Digital I/O
Positioning	Multi-GNSS
Temperature	-25 °C to +70 °C
Software	Routing, Network Services, VPN, Firewall, Link Management, Supervisor, SDK, free updates
Compliance	CE (RED), Vehicle (UNECE-R10, UNECE-R118)
Modularity	Extensions on request

Product Description

The vehicle-approved NB2700 is a rugged and field-proven router with versatile features for applications such as Smart Traffic, Ticketing or Passenger Infotainment.

The device is equipped with an LTE module, a WLAN access point, GNSS for positioning, digital inputs and outputs as well as 5 Fast Ethernet ports for wireless Internet access on the road.

The router meets the UNECE-R10 (E-Mark) and UNECE-R118 regulations and can therefore be used in buses and other road vehicles, even under tough operating conditions.

The software is based on well proven components including an embedded Linux operating system and a powerful communication protocol suite. Customer specific software extensions may be implemented via a sophisticated SDK.

Applications

- [Passenger Infotainment](#)
- [Ticketing](#)
- [Smart Traffic](#)
- [Emergency Services](#)

Specifications

1 - 2x Mobile / Cellular

Multimode LTE, UMTS and GSM 4G - LTE

B1 (2100), B3 (1800), B5 (850),
B7 (2600), B8 (900), B20 (800)

3G - DC-HSPA+/UMTS

B1 (2100), B2 (1900), B5 (850),
B8 (900)

2G - GSM/GPRS/EDGE

B2 (1900), B3 (1800), B5 (850),
B8 (900)

LTE Specification

LTE Cat 4, 2x2 MIMO
DL 150 Mbps / UL 50 Mbps

Voice

CSFB

Region

EMEA (APAC or NA on request)

Connector

2 - 4x SMA female

SIM

2x Mini SIM - 3FF

1x WiFi / WLAN (optional)

Standard

IEEE 802.11a/b/g/n (Wi-Fi 4)
Dual-band 2.4/5 GHz
2x2 MIMO

Bit rate (max)

300 Mbps

Modes

Client or Access Point (max. 100
Clients)

Connector

2 - 4x SMA female

5x Ethernet

Standard

100Base-TX, Auto MDIX

Speed

10 / 100 Mbps

Connector

5x RJ45

1x USB

USB 2.0 Host Port

Connector

1x Type A

Positioning

GNSS Receiver

BeiDou, Galileo, GLONASS, GPS/QZSS

Sensitivity

Up to -167 dBm, up to 2.5m CEP

Antennas

Active or passive

Connector

1x SMA female

1x Serial, Fieldbus

Protocol

RS-232

Signals

TX, RX

Bit rate

Up to 1 Mbps

Connector

1x Terminal block header 5 mm

4x IOs

2x Digital In

Level 0 (0-4 VDC), level 1 (7.2-40 VDC),
isolation 1'500 VDC

2x Digital Out

0-60 VDC/1A, isolation 1'500 VDC

Connector

1x Terminal block header 5 mm

System

400 MHz single-core, 64 MB RAM, 128
MB flash

Power

Nominal Input voltages

12, 24, 48 VDC (-15 % / +20 %)

Maximal Power Consumption

6 W

Connector

1x Terminal block header 5 mm

Other

Mounting

Brackets (wall mounting)

Dimensions

Width 165/190 mm x height 40 mm x
depth 104 mm

Weight

ca. 700 g

Environment

Operating Temperature

-25 °C to +70 °C

Ingress Protection Level

IP40

MTBF

310'000 h / 35.4 years, according
SN29500 at environmental
temperature 40 °C

Software

Features

Routing, Network Services, VPN,
Firewall, Link Management, Supervisor,
SDK, free updates

Licenses (optional)

Voice Gateway, OpenVPN- and
DynDNS Server, GNSS, Enhanced RF
Configuration

Certifications

Compliance

CE according to 2014/53/EU (RED),
Vehicle according to UNECE-R10,
UNECE-R118

Standards

EN 300328, EN 300440,
EN 301489-1, EN 301489-17, EN 301511,
EN 301893, EN 55024,
EN 55032, EN 61000-6-2, EN 60950-1,
EN 62311, EN 301489-3, EN 301489-52,
EN 301908-1, EN 301908-2, EN 303413,
UNECE-R10, UNECE-R118

Ordering options

Contact our sales team for our standard
models, options or project specific
adaptations