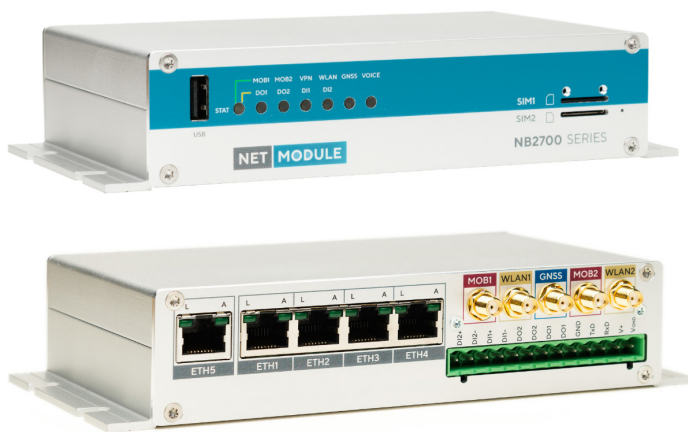


# NB2700 Vehicle Router

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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

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