

NB2700 WLAN Router

WLAN access point, WLAN client



The NB2700 vehicular router provides Internet/Intranet access using WLAN access points. This router also acts as a remote access device for condition monitoring. Mobile IP makes it possible to roam between different WLAN networks without interruption.

Users can connect their notebooks, smart phones or any types of WLAN clients to the NB2700. Depending on the router configuration and the user authentication and authorisation state, the traffic will be forwarded to a captive portal, the Internet or a private network. The two mobile broadband links can be used for load balancing or for seamless switch-over using the Mobile IP protocol. Devices not supporting WLAN can be connected via Ethernet. Also further access points may be attached via Ethernet.

The router is qualified to operate within an extended temperature range. Due to its special vibration and shock hardening, the device is an ideal solution for applications in harsh environments. Thanks to the e1 automotive certification, it may be integrated in new vehicles at production time.

Typical Applications

- Passenger WLAN in buses, boats and other road vehicles
- Passenger information systems
- Infotainment, digital signage
- Electronic payment
- VoIP communication

Key Features

- Automotive e1 certification
- Extended temperature range
- WLAN 802.11 abgn
- Access point or client
- Captive portal
- Mobile IP, OpenVPN, IPsec
- Digital I/O
- Load balancing
- Traffic shaping / QoS
- Fail-safe OTA software update

Specifications

WiFi	IEEE 802.11 abgn up to 300 Mbps 2.4/5GHz MIMO Access Point or Client Max users in access point mode: WPA: 54, WPA2: 110 Antenna connector: SMA female, supporting one or two antennas
Ethernet Switch	5 port Ethernet switch, 10/100 Mbps, auto MDX - Connector type: RJ45
Digital I/O	2 digital inputs, level 0 (not set): 0-4.0 VDC level 1 (set): 7.2-40 VDC 2 digital outputs, 0-60 VDC/1A, maximum switching capacity: 60 W Connector: 8 pins of the 13-pin terminal block
Serial	Protocol: RS232 3-wire - Connector type: 3 pins of the 13-pin terminal block
USB	USB Host interface, connector type: USB A
Power	Input voltage: 12V DC to 48V DC (- 25% /+ 20%; eff. 9-57,6V), max. power consumption: 6W
Environment	Temperature range: -25 °C to +70°C IP40 with SIM and USB covers mounted; MTBF 200'000h
Dimensions	165/190mm x 104mm x 40mm, ca. 600g
Safety Standards	EN60950-1:2006+A11:2009+A1:2010+A12:2011
EMC Standards	EN55022:2010, EN 61000-6-3: 2007+A1:2012, EN 50121-3-2: 2006+AC:2008 (Emission) EN55024:2010, EN 50121-3-2: 2006+AC:2008 (Immunity)
Type Approvals	CE according to directive 1995/5/EC (R&TTE) E1 according to Regulation No. 10 FCC according to 47 CFR, Part 15
Order Numbers: NB2700-W	(contact sales for more models, options or project specific adaptations) WLAN client/access point