

NB1600 WLAN

WLAN access point, wlan client



Typical Applications

- WLAN network with multiple access points
- WLAN client for WLAN disabled devices

The NB1600-WLAN can be configured as WLAN access point or as wlan client. In addition all NB1600 core functions are available: digital I/O, USB and serial gateway, SDK, VPNs and many more.

The NB1600 WLAN router is an industrial grade access point with additional functions. The integrated WLAN card can be configured as access point or as client. In access point mode, the router can establish up to 4 different WLAN networks.

As a special highlight NB1600 offers two Ethernet ports that are highly configurable. Used as LAN ports they may form a 2 port switch or have two separated and routed IP networks. Used as WAN ports the NB1600 acts as an industrial firewall with VPN client functionality.

The RS-232 serial interface can be configured by software as system console or serial device server. Legacy equipment that does not have any Ethernet port can be hooked up this way.

The NB1600 has two isolated binary inputs and two relay outputs for direct connection of sensors and actuators.

The USB port enables configuration and firmware update from memory stick. Ask for support of your specific USB device.

NB1600 supports major VPN technologies such as IPsec and OpenVPN. Both, server and client mode is possible. Simple handling of a Public key infrastructure makes it easy to connect two NB1600 via through a VPN tunnel.

Further services include DHCP server, DNS proxy server, DDNS agent, SNMP agent, telnet server, SSH server, web server, e-mail client and SMS client. The device is administrated via an easy to use web GUI or the command line interface. Over the air software update is both easy and fail-safe.

Key Features

- WLAN access point or client
- IEEE802.11 abgn 2.4/5 GHz
- 2 Ethernet port
- 2 digital inputs & outputs
- USB & RS-232
- Redundant power supply
- DIN Rail mounting kit
- Programmability

Specifications

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|----------------------------|--|
| WLAN / Wi-Fi | 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 |
| 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 15-pin terminal block |
| Ethernet | 2 Ethernet ports, 10/100 Mbps, Auto MDX, bridged or routed, RJ45 |
| USB | USB Host interface, type A |
| Serial | Protocol: 3-wire RS232 Connector type: 3 pins of 15-pin terminal block |
| Power | Redundant power supply inputs Input voltage: 12V DC to 48V DC (-15% / +20%) Max. power consumption: 5W Connector type: 2+2 pins of 15-pin terminal block |
| Dimensions | 124.2mm x 45mm x 110mm, ca. 450g |
| Environment | Temperature range: -25 °C to +70 °C Ingress Protection Rating: IP40; MTBF: 226'000h |
| Safety Standards | EN60950-1:2006 |
| EMC Standards | EN301489-1 V1.7.1, EN301489-7 V1.3.1 (Emission) EN61000-6-2:2005, EN50121-3-2:2006 and EN50121-4:2006 (Immunity) |
| Type Approvals | CE according to directive 1995/5/EC (R&TTE) FCC according to 47 CFR, Part 15 |
| Order numbers: NB1600-W | (contact sales for more models, options or project specific adaptations) WLAN router, configurable as access point or client |