

NB1800-2Wac

Industrial Router with 2x WLAN-ac + 2x GbE + SFP

High-performance and modular mobile router with Gigabit Ethernet and fiber ports to connect remote locations.



Keyfeatures

WiFi / WLAN	2x Dual-band IEEE 802.11 a/b/g/n/ac (Wi-Fi 5), 100 Clients in Access Point Mode
Ethernet	2x Gigabit Ethernet, 1x SFP
Extended Storage	1x SD Card
Serial / Fieldbus	1x RS-232/485
Operation Temperature	-40 °C to +70 °C
Software	Routing, Network Services, VPN, Firewall, Link Management, Supervisor, SDK, free updates
Compliance	CE (RED)
Modularity	Extensions on request

Product description

The powerful NB1800 router enables fast wireless network access in an industrial environment.

Applications

- Public WiFi
- Mining
- Industrial Security

Specifications

WiFi / WLAN	Standard	2x Dual-band WLAN 2.4/5 GHz a/b/g/n/ac (Wi-Fi 5) Wireless standard IEEE 802.11a/b/g/n/ac (Wi-Fi 5) Frequency 2.4/5 GHz Diversity 2x2 MIMO Data rate (max) 300 Mbps (2.4 GHz) / 866 Mbps (5 GHz) Modes Client or access point (up to 100 clients) FCC ID TK4WLE600VX
	Connector	4x SMA female
Ethernet	Standard	2x Gigabit Ethernet Ethernet standard 1000BASE-T, Auto MDIX Speed 10/100/1000 Mbps 1x Gigabit Ethernet / SFP combo (software switchable) Ethernet standard 1000BASE-T, Auto MDIX SFP standard Depending on module, ask for supported modules Speed 10/100/1000 Mbps Combo port SFP or GbE interface activated (software switchable)
	Connector	2x RJ45, 1x RJ45
USB	Standard	1x USB 2.0 Host
	Connector	1x Type A
Serial, Fieldbus	Protocol	1x RS-232/485 combo (software switchable) Protocol EIA-232 Signals TX, RX Signal level High > 5 VDC, low < -5 VDC Bit rate Up to 1 Mbps Protocol EIA-485 Signals A, B Signal level Differential output voltage, loaded 1.5 VDC - 3.6 VDC Bit rate Up to 1 Mbps Termination 120 Ω for RS-485 configurable by software
	Connector	1x Terminal block header 3.5 mm (screw locking)

Extended Storage		<p>SD Card</p> <p>Slot type microSD</p> <p>Speed (read / write) 600 kByte / s</p> <p>Application Store user and logging data of SDK or LXC applications</p> <p>SD card not included</p>
System	<p>Core</p> <p>Module Slots</p>	<p>1.3 GHz dual-core, 1 GB RAM, 4 GB flash</p> <p>2x miniPCIe (PCIe + USB), 2x Extension (USB)</p>
Software	Features	<p>NetModule Router Software</p> <p>Package The standard software package includes an intuitive user interface, covering all modern routing protocols and enables efficient mass deployment.</p> <p>General Fail-safe update (FOTA), upgrade via USB, HTTP(S), (S)FTP or TFTP, remote CLI & WebGUI, RADIUS authentication, Simple Certificate Enrollment Protocol (SCEP), logging</p> <p>Remote Management Manage and monitor devices with SNMP, telnet, SSH, or HTTP/HTTPS</p> <p>Cellular Networking Multi-SIM / soft-SIM support, multi-APN support, signal strength monitoring, dedicated bearers, GSM/CSFB calls</p> <p>Wireless LAN Client or Access Point mode, multi client support, multi / hidden SSID, WPA-PSK/WPA2-PSK, WPA-RADIUS, WPA-EAP-TLS, IEEE 802.11w, RADIUS accounting, CAPWAP</p> <p>Link Management Link prioritisation, link aggregation, load balancing, multipath-TCP, IP-passthrough, link supervision</p> <p>Network Services DHCP Client, DNS server, email, SMS service, NTP Client, NTP server, DynDNS, SSH server, SNMP agent, HTTP/HTTPS/FTP server, voice gateway, SIP call routing, coovachilli hotspot</p> <p>Routing Destination, policy, multipath, mobile-IP, OSPF, BGP, TCP-MSS clamping, STP/RSTP, bridging, LLDP, CDP, SONMP, EDP, FDP, IRDP, VRRP, VLAN, PPPoE</p> <p>VPN OpenVPN, IPsec, PPTP, GRE, CSD dial-in</p> <p>Firewall Stateful firewall, connection tracking, NAT, masquerading, bridge filtering</p>
Power	<p>Input Voltage</p> <p>Connector</p> <p>Consumption</p>	<p>12, 24, 48 VDC</p> <p>Nominal voltages 12, 24, 48 VDC</p> <p>Absolute voltages 12 VDC to 48 VDC (-25 % / +10 %)</p> <p>1x Terminal block header 3.5 mm (screw locking)</p> <p>11 W (average), 20 W (max)</p>
Mounting		DIN-Rail
Dimensions	W x H x D	Width 61 mm x height 128/140 mm x depth 121 mm
Weight		900 g
Environment	<p>Operating Temperature</p> <p>Ingress Protection Level</p>	<p>-40°C to +70°C</p> <p>IP40</p>
MTBF		240'000 h / 27.4 years, according SN29500 at environmental temperature 40 °C
Certifications	<p>Compliance</p> <p>Domain</p>	<p>CE according to 2014/53/EU (RED), 2011/65/EU (RoHS)</p> <p>Industrial</p>
Order Code		NB1800-2Wac