NET MODULE

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		SD Card **Slot type** microSD **Speed (read / write)** 600 kByte / s **Application** Store user and logging data of SDK or LXC applications SD card not included
System	**Core** **Module Slots**	1.3 GHz dual-core, 1 GB RAM, 4 GB flash 2x miniPCIe (PCIe + USB), 2x Extension (USB)
Software	**Features**	NetModule Router Software **Package** The standard software package includes an intuitive user interface, covering all modern routing protocols and enables efficient mass deployment. **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 **Remote Management** Manage and monitor devices with SNMP, telnet, SSH, or HTTP/HTTPS **Cellular Networking** Multi-SIM / soft-SIM support, multi-APN support, signal strength monitoring, dedicated bearers, GSM/CSFB calls **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 **Link Management** Link prioritisation, link aggregation, load balancing, multipath-TCP, IP-passthrough, link supervision **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 **Routing** Destination, policy, multipath, mobile-IP, OSPF, BGP, TCP-MSS clamping, STP/RSTP, bridging, LLDP, CDP, SONMP, EDP, FDP, IRDP, VRRP, VLAN, PPPoE **VPN** OpenVPN, IPsec, PPTP, GRE, CSD dial-in **Firewall** Stateful firewall, connection tracking, NAPT, masquerading, bridge filtering
Power	**Input Voltage** **Connector** **Consumption**	12, 24, 48 VDC **Nominal voltages** 12, 24, 48 VDC **Absolute voltages** 12 VDC to 48 VDC (-25 % /+10 %) 1x Terminal block header 3.5 mm (screw locking) 11 W (average), 20 W (max)
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	**Operating Temperature** **Ingress Protection Level**	-40°C to +70°C IP40
MTBF		240'000 h / 27.4 years, according SN29500 at environmental temperature 40 °C
Certifications	**Compliance** **Domain**	CE according to 2014/53/EU (RED), 2011/65/EU (RoHS) Industrial
Order Code		NB1800-2Wac