

NB1800-2Wac

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

High-performance and modular mobile router with Gigabit Ethernet and SFP ports for use in industrial environment.



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
- Public WiFi Mining Industrial Security Smart Traffic

Specifications

WiFi / WLAN	Standard	2x 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)			
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	Connector	Modes Client or access point (up to 100 clients) FCC ID TK4WLE600VX 4x SMA female			
			Ethernet	Standard	2x Gigabit Ethernet
					Ethernet standard 1000BASE-T, Auto MDIX
	Speed 10/100/1000 Mbps				
		1x SFP			
		SFP standard Depending on module			
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		Speed 10/100/1000 Mbps			
	Connector	2x RJ45, 1x SFP cage (mini GBIC)			
USB	Standard	1x USB 2.0 Host			
	Connector				
	Connector	1x Type A			
Serial, Fieldbus	Protocol	1x RS-232/485 combo (software switchable)			
		Protocol EIA-232			
		Signals TX, RX			
		y .			

Connector

Termination 120 Ω for RS-485 configurable by software

1x Terminal block header 3.5 mm (screw locking)

Signal level Differential output voltage, loaded 1.5 VDC - 3.6 VDC

Signal level High > 5 VDC, low < -5 VDC Bit rate Up to 115 200 Bit/s Protocol EIA-485 Signals A, B

Bit rate Up to 115 200 Bit/s

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 1.3 GHz dual-core, 1 GB RAM, 4 GB flash **Module Slots** 2x miniPCle (PCle + USB), 2x Extension (USB) Software **Features** NetModule Router Software (supported features depending on product variant) 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), Hardware- und Software Watchdog Remote Management Manage and monitor devices with SNMP V1/V2/V3, Netmodule vendor MIB, telnet, SSH, or HTTP/HTTPS Cellular Networking Multi-SIM / eSIM support (optional license), multi-APN support, signal strength monitoring, dedicated bearers, CSFB/VoLTE calls (optional license) Wireless LAN Access Point, Client Mode, Mesh Point or Dual Modes (Mesh Access Point / Access Point - Client), WLAN Pseudo-Bridge Client Mode: Multiple Client SSID Profile, Encryption: Open, WEP, WPA1/2/3-Personal, WPA1/2/3-Enterprise. Fast Roaming: Fast BSS Transition (802.11r), PreAuthentication, Protected Management Frames (802.11w) AP Mode: Multi-SSIDs (up to 8) Encryption: Open WPA1/2/3-Personal, WPA1/2/3-Enterprise Fast Roaming: Fast BSS Transition (802.11r), PreAuthentication, DFS support Protected Management Frames (802.11w) Client Tracking, Band Steering, Hide SSID broadcasting, Isolate Clients, Accounting, Short guard Intervall Mesh Mode (802.11s): Encryption: None, SAE. Gateway announcements Link Management Link prioritization, link aggregation, load balancing, multipath-TCP, IP-passthrough, link supervision, Services DHCP Client/Server, DNS Caching Server, Email, SMS Service, NTP Client/Server, SNTP Server, DynDNS, SSH Server, SNMP Agent, HTTP/HTTPS/FTP Server, IPv6 for WAN, 802.1x over Ethernet, MQTT Broker Voice Gateway (SIP, Call Routing, Audio with optional license) Coovachilli Hotspot Routing Destination, policy, multipath, mobile-IP, OSPF, BGP, multicast, TCP-MSS clamping, bridging discovery protocols LLDP, CDP, SONMP, EDP, FDP, IRDP, VRRP, STP/RSTP, VRRP, VLAN, PPPoE, VXLAN VPN OpenVPN, IPsec (IKEv1 and IKEv2), PPTP, GRE, L2TP, CSD dial-in, Certificate revocation service Firewall Stateful firewall, connection tracking, NAT, NAPT, masquerading, bridge filtering, Adress translation (based on SRC and DST ports) Encryption supporting password protected PKCS12 files, integrated random certificate key generator, "Let's encrypt" certificate, ECC (Certificates with Elliptic Cryptography) Quality of Service Diffserv, SFQ, HTB, Priority-based Queuing, Netflow (Softflow) **Programmability SDK** Troubleshooting Logging, Ping, Traceroute, Tcpdump, Speed-test Input Voltage 12. 24. 48 VDC Nominal voltages 12, 24, 48 VDC Absolute voltages 12 VDC to 48 VDC (-25 % /+10 %) Connector 1x Terminal block header 3.5 mm (screw locking) Consumption 11 W (average), 20 W (max) Mounting DIN-Rail **Dimensions** WxHxD Width 61 mm x height 128/140 mm x depth 121 mm Weight 800 g Environment Operating -40°C to +70°C Temperature Ingress Protection IP40 МТВЕ 240'000 h / 27.4 years, according SN29500 at environmental temperature 40 °C

CE according to 2014/53/EU (RED), 2011/65/EU (RoHS)

Industrial

Order Code NB1800-2Wad

Compliance

Certifications