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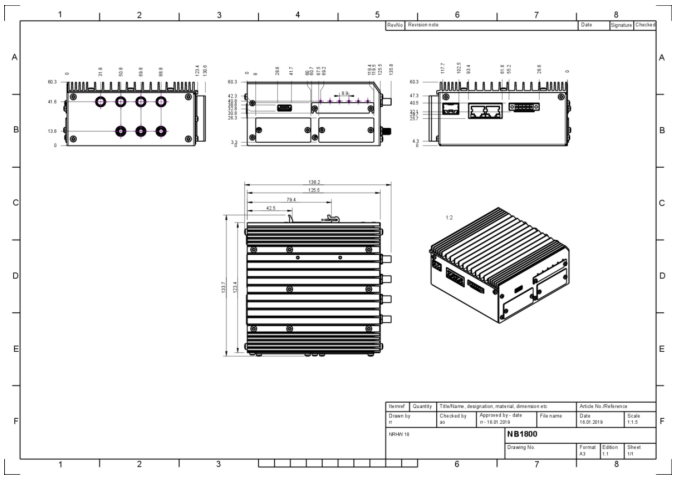
Product: NB1800-LpWac-G

High-Performance Router with GbE, GbE/SFP Combo, LTE-A Pro, WLAN-ac, GNSS,

Product Description

Hich-Performance Router with 1x Gigabit Ethernet , 1x Gigabit / SFP Combo, LTE-Advanced Pro, WLAN 802.11ac (Wi-Fi 5), GNSS (GPS),

Technical Drawing



Technical Specifications

Product Overview

Name:	NB1800-LpWac-G
WAN:	IPv4; IPv6; IP Passthrough; DynDNS Client; PPPoE;

Product Life Cycle

Life Cycle:	Active - Product is available

General Information

Scope of delivery:	Device, General safety instructions, 1x Terminal block 3.5mm

More Interfaces

USB interface:	1 x USB 2.0 socket to connect an approved USB storage device, USB Type A socket
SIM Cards:	2x Micro SIM (3FF) slot
Local Management and Device Replacement:	Management via Web (HTTPs); Command Line Interface (CLI) over SSH/Serial/Web; SNMP v1/v2c/v3; Discovery via LLDP, CDP, FDP, SONMP, EDP, IRDP
Ethernet Connector Type:	Gigabit Ethernet: Auto MDIX, 1000/100/10 Mbps; 1x RJ45; 1x Combo RJ45 or SFP (SFF-8472, max. Class 1 module, 1.25 GBd ±100 ppm, 3.3 VDC ± 10%)
Power Supply:	5-pin terminal block (connector included)
Serial:	1x RS-232, RS-485; Signals GND, TX, RX; Up to 115kBit/s; RS-485 combo (software switchable); 120 Ω for RS-485 configurable by software
GPS (global positioning system):	Multi-GNSS, Receiver: BeiDou, Galileo, GLONASS, GPS, gpsOne Gen 9, Antennas: active or passive, Sensitivity: Down to -158 dBm, CEP (Circular Error Probability) ≤ 2 m, Services: Standalone, GNSS Stream NMEA or JSON, 1x SMA female
CPU:	1.3 GHz dual-core
Memory:	1 GB RAM
Storage:	4 GB flash

Signaling contact:	; +2 additional Digital I/O (4 total)
LEDs:	6 LEDs + Ethernet LEDs (Speed, Activity)
Reset Function:	Pin-hole push button for reboot and factory reset

Radio technology

Modules

Description	3G	4G	MIMO	Antenna Connector	Additional Radio Features	Radio Protocol	Frequency Band	Access Point Functionality	Client / STA Functionality
Module 2	DC-HSPA+/UMTS B1, B2, B4, B5, B6, B8, B9, B19 2014/53/EU (RED) Bands: B1, B8	LTE Advanced Pro (Cat. 12) Bands: B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B38, B39, B40, B41, B42, B43, B48 (CBRS), B66, B712014/53/EU (RED) Bands: B1, B3, B7, B8, B20, B28, B38, B40	2x2 MIMO; 600 Mbps downlink, 150 Mbps uplink	2x SMA female	FCC ID RI7LN920				
Module 4			2x2 MIMO; Max. 866 Mbps	2x SMA female	WLAN FCC ID: TK4WLE600VX	802.11 a/b/g/n/ac (Wi-Fi 5)	WLAN 2.4 or 5 GHz	Yes (up to 100 clients)	Yes

Load Balance:	Link Prioritizatoin and Aggregation; Load Balancing; Diffserv; SFQ; HTB; Priority based Queuing

Diagnostics features

Alarm and event actions:	Email; SMS
Monitoring:	Watchdogs (Hard- and Software); Link Supervision; MQTT Broker

Security features

Multipoint VPN:	VXLAN, CSD dial-in, OpenVPN, IPSec, GRE, L2TP, PPTP, IKEv1/v2

Service

Other services:	DNS Cache;

Software

Firmware Storage:	Fail-safe update (FOTA); Software Update via USB, HTTP(s) (push), FTP (pull), SFTP (pull), TFTP (pull)
Radius Server:	External Radius Server Management User Authentication
Software features:	Software Development Kit (SDK);
Software Version:	5.0 (updates free of charge)
Operating system:	NRSW (NetModule Router Software)
Switching:	VLAN (802.1Q)
Redundancy:	Multipath TCP, VRRP (Virtual Router Redundancy Protocol), RSTP (Rapid Spanning Tree Protocol)
Diagnostics:	Netflow (Softflow), Ping, Traceroute, Tcpdump, Speed Test
Configuration:	DHCP Client and Server
Security:	Certificate Management (SCEP Client, Signing Requests), Certificate formats: PKCS12, PKCS7, PEM/DER, RSA/Ed25519 (OpenSSH/Dropbear), "Let's encrypt" support, Elliptic Curve Certificates (ECC), 802.1x for LAN, Stateful Firewall, Connection Tracking, Bridge Filtering
Time synchronisation:	NTP Client and Server, SNTP Server
Routing:	Destination, Policy, Multipath, OSPF, BGP, Multicast, TCP-MSS Clamping, NAT, NAPT, Masquerading
Management Software:	Compatible with "Connectivity Suite"
Cellular Functions:	Signal Strength Monitoring

Ambient conditions

Air Pressure (Operation):	Up to 4000m above sea level
Degree of Protection when Installed:	IP40
Relative humidity (non-condensing):	0-95 %

Mechanical construction

Dimensions (WxHxD):	61 mm x 128/140 mm x 121 mm
Weight:	800 g
Housing Material:	brushed aluminium
Mount Type:	DIN Rail 35 mm
Mating Side:	from the front, top and bottom
Labeling:	Type label on bottom

Approvals

Basis Standard:	CE according to 2014/53/EU (RED), UKCA (RER), FCC

UK Regulation Compliance:	UKCA Mark
Suitability - Indoor:	Yes

Further Instructions

Software Download:	https://share.netmodule.com/public/system-software/latest/

History

Update and Revision:	Revision Number: 0.4 Revision Date: 12-15-2025

Variants

Item #	Type
942998128	NB1800-LpWac-G

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