



Reset Function:	Pin-hole push button for reboot and factory reset
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## Radio technology

### Modules

Description	2G	3G	4G	MIMO	Antenna Connector	Additional Radio Features
Module 1					GNSS: 1x FAKRA C-coded male;	
Module 2	GSM/GPRS/EDGE Bands: B3 (1800), B8 (900)	DC-HSPA+/UMTS Bands: B1 (2100), B3 (1800), B8 (900)	LTE Cat. 4 Bands: B1, B3, B7, B8, B20, B28A	2x2 MIMO	4G: 2x FAKRA D-coded male;	CSFB; VoLTE;

Load Balance:	Link Prioritization and Aggregation; Load Balancing; Diffserv; SFQ; HTB; Priority based Queuing
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### Power requirements

Operating Voltage:	12 .. 48 VDC (±25%)
Power Consumption:	max. 20 W

### Diagnostics features

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

### Security features

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

Other services:	DNS Cache;
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### 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 TestGNSS Diagnostics
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, NAT, Masquerading, Mobile-IP
Management Software:	Compatible with "Connectivity Suite"
Cellular Functions:	Multi-APN; Signal Strength Monitoring; Dedicated Bearers

### Ambient conditions

Degree of Protection when Installed:	IP40
Operating temperature:	-25-+70 °C

### Mechanical construction

Dimensions (WxHxD):	164/190 mm x 58 mm x 139.5 mm
Weight:	800 g
Mount Type:	Flat surface mounting
Mating Side:	all from front

### Approvals

Basis Standard:	CE according to 2014/53/EU (RED), 2011/65/EU (RoHS)
UK Regulation Compliance:	UKCA Mark
Suitability - Indoor:	Yes

### Reliability

Guarantee:	5 years
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## Further Instructions

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

## History

Update and Revision: Revision Number: 0.6 Revision Date: 03-19-2026

## Variants

Item #	Type
942998300	NB2800-LApJs-GV

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