



Building on almost two decades of knowledge accumulation and experience in wireless devices development, Nivis' VersaRouter 1100 Titan is the next-generation of routers dedicated especially to enterprise clients.

Along with its state-of-the art 3G modem and extended range, Nivis VersaRouter 1100 Titan is waterproof and industrial temperature grade*, thus suitable for outdoor usage in any weather conditions.

The Nivis VersaRouter 1100 Titan is also available as an OEM component for inclusion in other products.

Key Benefits

- Supports up to 4000 Smart Objects
- Standards-compliant: IPv6, RoLL/RPL, 6LoWPAN, 802.15.4e, 802.15.4g, CoAP
- Certification pending in US & Canada
- 3G backhaul**
- 1W output power***
- Designed for outdoor usage and pole mounting
- Tamper and power outage detection and reporting
- Battery back-up

PROCESSOR/MEMORY	
Processor	ARM CORTEX A8 1GHz
RAM memory	1GB DDR3
Flash memory	1 GB NAND
EEPROM	4Kbyte serial EEPROM
SD card	32 GB
PERIPHERALS/SOFTWARE	
Ethernet channel	1x10/100Base-T Ethernet Channel, RJ45 connector
Operating system	Linux kernel 3.2 embedded
Modem	3G, six-band GPRS/EDGE, W-CDMA (UMTS)
ELECTRICAL/MECHANICAL	
Input voltage	85 – 264 VAC 50/60Hz 120 – 370VDC
Power consumption	5.5W avg., 35W max
-with max load on socket	550VA
Enclosure/dust & water	Plastic, IP65
Temperature range	-40 to +85° C *
Relative humidity	Weather proof
Dimensions (WxLxH)	11.8'' x 15.8'' x 4.8'' 300 x 400 x 121 mm
Height with antenna	640mm/25.2''
Battery Back-up	12V/7Ah
Weight	5.4 kg
Mounting	Pole mount
External connectors	Power cable gland -max. cable diameter 6.5mm

*Except for: RF amplifier (temp. range :-40C to +70C) and cell modem (operational in -40C to +85C range with occasional deviations from 3GPP standard in -40C to -20C and +65C to +85C ranges)

RADIO	
Radio module	IEEE802.15.4g radio module
Frequency band	902-928 MHz
Number of channels	64/129 depending on data rate
Channel spacing	200/400 kHz
Frequency accuracy	± 15 PPM
Modulation	FSK
Data rate	50/150/200 kbps
Output power	25 dBm
Receiver sensitivity	-100 dBm @ 50 kbps -94 dBm @ 150 kbps -92 dBm @ 200 kbps
Range	1.35 miles line of sight 2.2 km line of sight
3G ANTENNA	
Antenna type	GSM
Impedance	50 Ω
Gain	+2.2 dBi
Pattern	Omni-directional
Maximum VSWR	2:1
Connector	SMA on cable
SMART OBJECT ANTENNA****	
Antenna type	Collinear
Impedance	50 Ω
Gain	+3 dBi
Pattern	Omni-directional
Maximum VSWR	1.5:1
Connector	N-Male
CERTIFICATIONS (pending)	
EMC US	FCC-Part 15 section 247
EMC Canada	IC, must comply with FCC 15.247

Data plan required: 3G with **unrestricted Internet access.

*** When using 5dBi antenna

****Available on demand: 5dBi external antenna