



NetVanta 3G NIM

Network Interface Module (NIM) for 3G Cellular Networks

Product Features

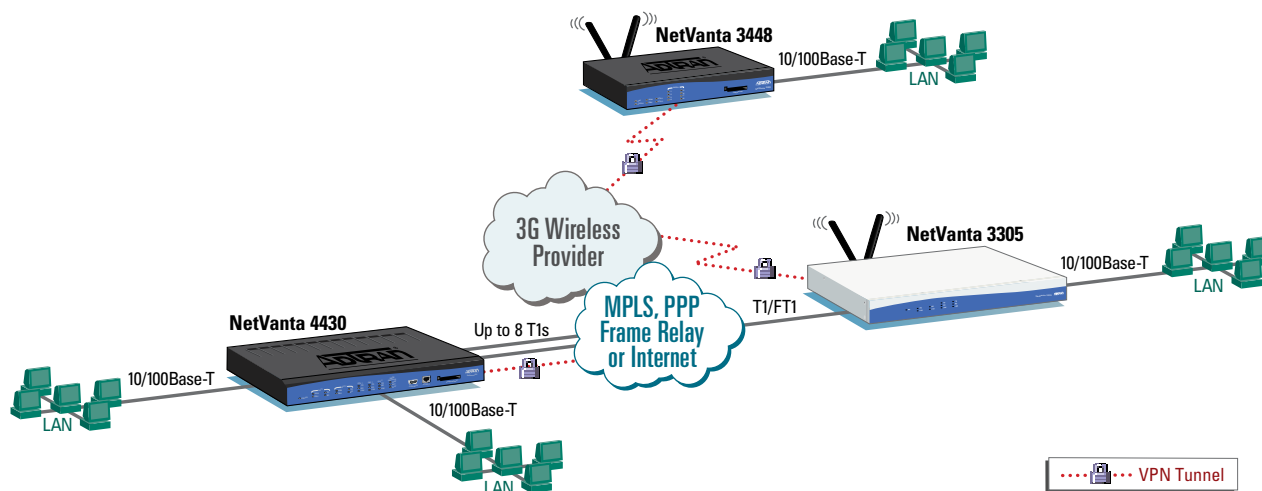
- NIM offering an integrated wireless WAN solution for the NetVanta platforms
- Can be used as a primary WAN connection or as a backup solution with better bandwidth capability
- Flexible deployment wherever cellular coverage is available
- Ideal for mobile temporary sites or remote locations where wired service is unavailable
- Faster installation time compared to traditional wired service
- Industry-leading five-year North American warranty

The NetVanta® 3G NIM is a plug-in module for ADTRAN®'s NetVanta routers. It provides a standards-based 3G Code-Division Multiple Access (CDMA) interface for broadband access through cellular network connections with download rates exceeding 3Mbps. The 3G NIM is designed to operate in the 800/1900 CDMA bands with dual-band dipole antennas—one primary and one diversity antenna.

The use of a 3G cellular service is a compelling alternative to traditional wire-line solutions. With the use of the 3G NIM, NetVanta routers can use 3G CDMA cellular service as a primary Wide Area Network (WAN) connection, or as a backup/disaster recovery link. As a primary WAN connection, 3G is perfect for mobile or temporary sites needing connectivity or for locations where wired service is unavailable. In addition, the 3G NIM can deliver WAN connectivity in a fraction of the time required to install a traditional wire-line connection.

The NetVanta routers can also use the 3G NIM as a cost-effective, high-performance disaster recovery backup solution, guaranteeing service if the primary connection is ever lost. This can be accomplished using a NetVanta unit supporting two NIM slots; one NIM for the primary connection and the other for the 3G NIM for the disaster recovery link. Another option is to have two standalone units; one connected to the primary connection, the other using the 3G NIM for disaster recovery. The two units run Virtual Routing Redundancy Protocol (VRRP) guaranteeing hardware and link redundancy.

Like ADTRAN's other NIM solutions, once the 3G NIM is plugged into the NetVanta router, it becomes an integrated solution that takes advantage of all the features inherent in the ADTRAN Operating System (AOS) such as Quality of Service (QoS), firewall, Network Address Translation (NAT), and Virtual Private Network (VPN). In addition, the AOS allows the 3G NIM to be administered through both the Command Line Interface (CLI) as well as the intuitive Web-based Graphical User Interface (GUI).





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Product Specifications

CDMA Technologies and Performance

Downstream Rate

- **1xEV-DO Rev 0:** Up to 2.4Mbps
- **1xEV-DO Rev A:** Up to 3.1Mbps

Upstream Rate

- **1xRTT:** Up to 153.6Kbps
- **1xEV-DO Rev 0:** Up to 153.6Kbps
- **1xEV-DO Rev A:** Up to 1.8Mbps

Frequency Bands

- Band Class 0 (Cellular 800 MHz)
- Band Class 1 (PCS 1.9 GHz)

Antennas

- 2 Removable Dual-band Dipole Antennas with RF Connectors
- **Frequency:** 800/1900 CDMA Bands
- **Gain:** 2 dBi
- **Length:** 5.5 in (14 cm)

Primary antenna

- **Peak Gain:** 1 dBi
- **Average Gain:** -3 dBi
- **Average Power Handling:** 2 watts

Diversity Antenna

- **Average Gain:** -9 dBi

Status LEDs

- **WAN:** 3G Modem Status
- **1xRTT:** 1xRTT Service Availability
- **EVDO:** 1xEV-DO Service Availability
- **RSSI:** Received Signal Strength Indicator

Supported Platforms:

- Visit www.adtran.com/3G for a complete listing of supported platforms

Environmental

- **Operating Temperature:** 0°C to 50°C (32° to 122 °F)
- **Storage Temperature:** -20°C to 70°C (-4 to 158° F)
- **Relative Humidity:** Up to 95%, Non-condensing

Physical

- **Dimensions:** 2.75" W x 4.25" D

Agency Approvals

- FCC Part 15, Class A
- FCC Parts 2, 22, 24
- UL/CUL 60950-1
- RSS 102
- IC ES-003
- RSS 129/133
- RSS 132/133
- CAN/CSA-C22.2 No. 60950-1
- Industry Canada ICES-003

Ordering Information

Equipment	Part #
3G NIM (CDMA) Verizon® Wireless Network	1700801G1
3G NIM (CDMA) Sprint® Wireless Network	1700802G1



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