NetVanta 160 and 161

High-Performance Dual Radio 802.11n Access Points

Product Features

- 802.11a/b/g/n wireless access points supporting MIMO antenna technology

- Dual radio 2.4 Ghz and 5 Ghz

- Embedded antenna array

- Full 2x3:2 MIMO performance powered by 802.3af Power over Ethernet (PoE)

- Supports WMM/802.11e and Quality of Service (QoS) for Enterprise-class Voice over Wi-Fi

- Automatic channel and power adjustments to optimize coverage and maximize performance

Wi-Fi® enable your NetVanta® network with a NetVanta 160 or 161 lightweight Access Point (AP). Providing 802.11a/b/g/n radio support at speeds up to 300 Mbps, these business-class APs are perfect for the corporate environment needing a secure, integrated WLAN solution.

The NetVanta 160/161 are ideally suited for organizations requiring true enterprise mobility. Designed for environments and applications that require high capacity, scale and speed, these access points provide predictable and reliable wireless coverage that improve client performance and the end-user experience.

Hardware

These 802.11n access points support 2 x 300 Mbps streams and include a Gigabit Ethernet port —delivering market leading coverage and throughput. The NetVanta 160/161 APs are fully functional with the power delivered by a single-port 802.3af PoE solution.

Wireless VoIP and Video

Leveraging ADTRAN's technology leadership, the NetVanta 160/161 APs are engineered to support the requirements of high-speed wireless technologies, emerging bandwidth intensive applications and latency sensitive services such as voice and video.
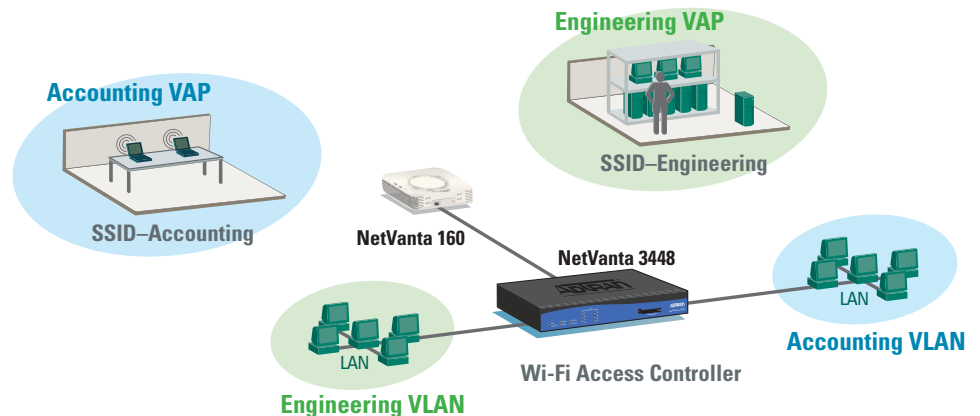
Virtual Access Points

The NetVanta 160/161 employs Virtual Access Points (VAPs), the equivalent of wireless Virtual LANs (VLANs). Each radio in the NetVanta 160/161 supports up to eight VAPs, enabling enterprise customers to securely segment their wireless network traffic.

Unmatched Security

The NetVanta 160/161 APs support local MAC authentication, 802.1x port-based authentication, Wireless Protected Access (WPA), and 802.11i (WPA2) with multiple Extensible Authentication Protocol (EAP) methods for user authentication such as PEAP, FAST, TTLS, AKA, SIM and TLS.

Antenna Options

To meet customers' specific requirements, ADTRAN offers internal and external antenna options. The NetVanta 160 access point features an internal, six antenna array for standard coverage. The NetVanta 161 access point features six external RP-SMA connectors for specialized antennas that are commonly used in the deployment of outdoor or directional antennas.

Engineering VAP

Accounting VAP

SSID–Engineering

SSID–Accounting

NetVanta 160

NetVanta 3448

LAN

LAN

Accounting VLAN

Wi-Fi Access Controller

Engineering VLAN

Smart Solutions for a Connected World.

ADTRAN®

TL9000
TL19.1270

nsai

TL 9000
TELECOMMUNICATIONS
ISO 9001:2000
QUALITY
ISO 14001
ENVIRONMENT

ADTRAN is an ISO 9001, ISO 14001, and a TL 9000 certified supplier.

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Product Specifications

Interfaces
- One auto-sensing, 10/100/1000Base-T, RJ-45 connector
- RJ-45 Console Port

Antenna
- **NetVanta 160 AP**: Six internal MIMO antennas
- **NetVanta 161 AP**: Six external RP-SMA connectors for specialized antennas

Radios
- 802.11a/n and 802.11b/g/n
- A-MPDU frame aggregation
- HT20 and HT40 modes

Mobility Services
- Eight SSIDs per radio

Voice Quality of Service
- Wireless Multi-Media QoS
- Seamless Layer 2
- WMM Power Save (U-APSD)
- Single click voice configuration
  - ○ Simple and automatic policy configuration
  - ○ Advanced quality of service

Security
- 802.1x port-based authentication
- WEP-64/128
- WPA/WPA2-Personal
- WPA/WPA2-Enterprise

EAP-TTLS	EAP-PEAP	EAP-FAST
EAP-TLS	EAP-SIM	EAP-AKA

Environment
- **Operating Temperature**: -22° to 131° F (-30° to 55° C)
- **Humidity:** Maximum 95% noncondensing

Physical
NetVanta 160 AP:
- **Dimensions:** 2.1" H, 7.8" W, 7.8" D (5.4cm x 19.8cm x 19.8cm)
- **Weight:** 2lbs (0.9kg)

NetVanta 161 AP:
- **Dimensions:** 1.8" H, 7.8" W, 7.8" D (4.6cm x 19.8cm x 19.8cm)
- **Weight:** 1.5 lbs. (0.7kg)

Administration
- Requires AOS 10.4 or higher
- NetVanta Wi-Fi Access Controller required to manage
- Familiar CLI via Wi-Fi Access Controller
- Web GUI via Wi-Fi Access Controller

Supported Wi-Fi Controllers
NetVanta 1234/1234P*	NetVanta 3430
NetVanta 1238/1238P*	NetVanta 3448
NetVanta 1335/1335P	NetVanta 3450
NetVanta 1534/1534P	NetVanta 3458
NetVanta 1544/1544P/1544F	NetVanta 4430
NetVanta 1638/1638P	NetVanta 6355
NetVanta 3120	NetVanta 7060
NetVanta 3130	NetVanta 7100

- Total Access® 900/900e Series

* 2nd generation units only

Power
- 100mW TX
- 802.3af compliant Power over Ethernet (PoE)
- External 12V DC power adapter (optional)

Mounting
- Desktop/wall/ceiling/t-bar mount kit included
- Plenum rated
- Flush mount suspended ceiling kit (optional)
- Anti-theft: Compatible with Kensington-style locks

Agency Approvals
Electrical/Safety Compliance

UL 1950	CSA 22.2
IEC 60950	EN 60950

Radio Approvals
- FCC Part 15.247 ■ RSS-210 (Canada)
- EN 300.328 (Europe)
- AS/NZS 4771 (Australia & New Zealand)
- NCC (Taiwan) and IDA (Singapore)

EMI and Susceptibility (Class A)
- FCC Part 15.107 and 15.109 ■ ICES-003 (Canada)
- EN 301.489-1 and -17 (Europe)
- AS/NZS 3548

Warranty
- One-year

Ordering Information

Equipment	Part #
NetVanta 160 Access Point 802.11a/b/g/n, internal MIMO Antennas	1700416F1
NetVanta 161 Access Point 802.11a/b/g/n, six external RP-SMA Connectors	1700417F1
Accessories and Options	
12V External Power Supply	1700922F1
802.3af Compliant PoE Injector	1700920F1
Suspended Ceiling Bracket	1700921F1
2.4Ghz and 5Ghz Omni Antennas	1700939F1