

## KEY FEATURES

- 28-port multi-layer Gigabit Ethernet switch
- 24 10/100/1000Base-T or ActivReach and four SFP optical ports
- Data connectivity of 10/100 Mbps over one, two, or four-pair of voice-grade cabling at distances up to 1,200 ft
- 802.3af (PoE), Legacy PoE, and PoE over ActivReach
- Non-blocking, up to 62 Gbps switching capacity
- Line rate Layer 2 and Layer 3 Lite capabilities
- VoIP ready with LLDP/LLDP-MED and voice VLANs
- Business-class security with RADIUS, TACACS+, 802.1x and port security
- iSCSI optimized for storage area networks (SANs) solutions

## APPLICATIONS

- VoIP over voice-grade (CAT3) cabling
- Converged voice, data and PoE over CAT3 cabling
- Gigabit to the desktop deployments
- Single cable, multiple ports
- Extended reach deployments

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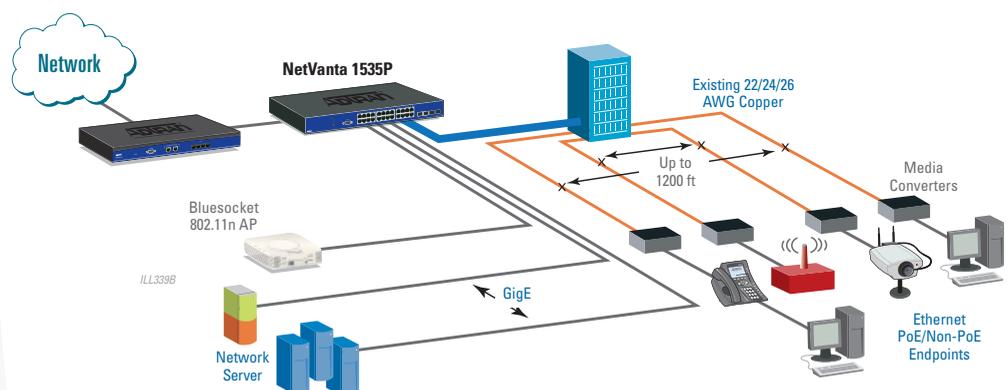


The NetVanta 1535P with ActivReach technology is the industry's only switch that can deliver voice, data, and PoE over legacy voice-grade cabling, as well as standard CAT5 cabling. The NetVanta 1535P is a managed, 28-port PoE, Layer 3 Lite, Gigabit Ethernet switch with ActivReach technology designed for fast, secure, cost-effective Local Area Network (LAN) switching.

Through its innovative design, the NetVanta 1535P utilizes standard 10/100/1000Base-T Ethernet or ActivReach for PoE and connectivity in a variety of cabling environments. In addition, this full-featured business-class switch was designed with Voice-over-IP (VoIP) applications in mind with the ability to supply Legacy PoE, 802.3af (PoE), or PoE over ActivReach to power IP phones, as well as Gigabit-to-the-desktop deployments.

### ActivReach Technology

ADTRAN's ActivReach technology allows speeds of 10/100 Mbps native Ethernet over voice-grade copper and over extended distances. Configurable per-port, ActivReach is capable of delivering up to 15.4 W of PoE, as well as 10/100 Mbps of full-duplex link connectivity utilizing four-pair, two-pair or even a single-pair of CAT3 or higher cabling at distances of up to 1,200 feet. With ActivReach, the NetVanta 1535P is designed to easily deploy VoIP and UC technologies utilizing a building's existing voice-grade wiring. In addition, with speeds up to 100 Mbps, ActivReach also provides a cost-effective means for desktop connectivity where CAT5 cabling does not already exist.



# NetVanta 1535P

## Applications

ADTRAN®



### VoIP over Voice-Grade Wiring

When businesses decide to upgrade their voice infrastructure from analog or digital hand-sets to Voice over IP (VoIP), many considerations must be made. For many businesses, the risk of a converged voice and data network is simply too great and IT managers are forced to run new cable to enable VoIP and cutting-edge Unified Communications (UC). The NetVanta 1535P with ActivReach provides the ability to deliver **10/100 Mbps Ethernet and PoE at distances up to 365 meters (1200 feet)**, taking advantage of the existing cable plant infrastructure to deliver flawless voice quality over longer distances without impacting the existing data network.

### Voice, Data and PoE over a Single Twisted-Pair

In many older office buildings, retail stores, hotels, hospitals and distribution facilities, the only cabling plant infrastructure is CAT3 cabling primarily used for legacy phone systems. The cost to upgrade this infrastructure to CAT5 can cost \$150 - \$250 per drop. The NetVanta 1535P with ActivReach can provide another option at an extremely low price-point. With bi-directional networking speeds of up to 100 Mbps, ActivReach is the only technology that can provide **data networking speeds** over existing **voice-grade wiring**. In addition, with the ability to power IP phones, apply QoS policies to properly prioritize voice traffic, and separate voice and data traffic across multiple VLANs, the NetVanta 1535P provides the ability to deploy a complete solution for voice and desktop connectivity.

### Upgrade to Gigabit to the desktop

The NetVanta 1535P is a true L2/L3-lite Gigabit switch, which provides the ability to deploy a converged voice and data network over existing CAT3 cabling in addition to providing an easy upgrade path to Gigabit networking speeds **without the need to change the hardware**.

**Each Ethernet port** can be configured for ActivReach Ethernet speeds of 10/100 Mbps in ActivReach mode or standard IEEE 10/100/1000Base-T Ethernet. Therefore, infrastructure upgrades can be performed incrementally and the same switch port—previously configured for ActivReach—can be configured to provide gigabit speeds over standard IEEE Ethernet once new cabling is put in place, thereby maximizing total cost of ownership (TCO).

### Single Cable, Multiple Ports

With the NetVanta 1535P and ActivReach technology, another possibility becomes a reality. Over certain distances, it is possible to split the individual pairs within a multi-pair CAT3 or CAT5 cable to run **PoE and data over each individual pair**. Thus, a single CAT5 100 Mbps uplink with PoE can become four 100 Mbps uplinks with PoE. In this scenario, cost is minimized considerably since **no new cabling** has to be put in place and the only additional hardware needed are ActivReach Media Converters.

### Support Extended Reach Deployments

When deploying a brand-new network or performing a network upgrade, it is not uncommon to come across situations that require cabling longer than the 100 meters (328 feet) supported by standard IEEE Ethernet today. Having only one or two of these types of endpoints hardly justifies the cost of an additional business-class switch and networking infrastructure to support. The NetVanta 1535P is a true 24-port Gigabit Ethernet switch with ActivReach technology layered on top of it for long-distance 10/100 connections. Since ActivReach can be **enabled or disabled per-port**, it is possible to deliver **gigabit** speeds to the majority of end-points within 100 meters of the switch and enable ActivReach for the few long-distance end-points that need an uplink.

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