ADTRAN

NetVanta Multiservice Access Routers

Multiple networking functions – a single box solution

The NetVanta® series of multiservice Switch-Routers provides affordable, all-in-one connectivity by offering a variety of networking functions wrapped into a single, compact device. These integrated, versatile platforms are capable of solving a multitude of switching challenges. These products are perfect for bandwidth-intensive applications like Voice over IP (VoIP) or for reliable, corporate LAN/WAN connectivity and Internet access.

NetVanta Access Routers

NetVanta® 3448

• Integral eight-port, fully managed, Layer 2 Ethernet Switch
• Dual 10/100Base-T Ethernet ports for LAN segmentation or broadband backup
• CompactFlash® slot for configuration files and new firmware
• Supports up to 100 IPSec VPN tunnels (optional)

JENNE PART NUMBER:	Description
1200821E1	NetVanta 3448
4200821E2	NetVanta 3448 Chassis w/VPN

ADTRAN PoE 802.3af Power over Ethernet

NetVanta 3448

NetVanta® 3448 PoE

• Same features as the NetVanta 3448, plus: 802.3af PoE switch delivering 15.4 watts per port

JENNE PART NUMBER:	Description
4200821G11#120	NetVanta 3448 PoE
4200821G12#120	NetVanta 3448 PoE w/ VPN

NetVanta® 3458

• Integral eight-port, fully managed, Layer 2 Ethernet Switch • Dual 10/100Base-T Ethernet ports for LAN segmentation or broadband backup
• CompactFlash® slot for configuration files and new firmware • Supports up to 100 IPSec VPN tunnels (optional)

JENNE PART NUMBER:	Description
1200824G1	NetVanta 3458
4200824G2	NetVanta 3458 Chassis w/VPN

NetVanta 3458

NetVanta® 3458 PoE

• Same features as the NetVanta 3448, plus: 802.3af PoE switch delivering 15.4 watts per port

JENNE PART NUMBER:	Description
4200824G11#120	NetVanta 3458 PoE
4200824G12#120	NetVanta 3458 PoE w/ VPN

NetVanta® 1335

• Integral 24-port, fully managed, Layer 3 Ethernet Switch • Dual Gigabit/SFP module slots for uplink or stacking
• CompactFlash® slot for configuration files and new firmware • Supports up to 100 IPSec VPN tunnels
• Wi-Fi Access Controller

JENNE PART NUMBER:	Description
1700515G2#120	NetVanta 1335

ADTRAN PoE 802.3af Power over Ethernet

NetVanta 1335

NetVanta® 1335 PoE

• Integral 24-port, fully managed Layer 3 Ethernet Switch • 802.3af PoE switch delivering 15.4 watts per port • Supports up to 100 IPSec VPN tunnels
• Dual Gigabit/SFP module slots for uplink or stacking • CompactFlash slot for configuration files and new firmware • Wi-Fi Access Controller

JENNE PART NUMBER:	Description
1700525E2	NetVanta 1335 with PoE

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NETWORK INFRASTRUCTURE SOLUTIONS

NETWORK INFRASTRUCTURE SOLUTIONS

	NetVanta 3448	NetVanta 3458	NetVanta 1335
Chassis Part Number	1200821E1	1200824G1	
Chassis with VPN	4200821E2	4200824G2	1700515G2#120
Chassis with PoE Part Number	4200821G11#120	4200824G11#120	1700525E2
Product Features			
Chassis	2 Fast Ethernet + 8-port Fast Ethernet Switch	2 Fast Ethernet + 8-port Fast Ethernet Switch	24 Fast Ethernet + 2 Gigabit Ethernet
Power Supply	Internal	Internal	Internal
Interfaces			
Modular NIM Slots	1	2	1
ADSL, ADSL2, ADSL+ Interfaces	●	●	●
Onboard Ethernet Interfaces	2	2	0
Ethernet Switch Ports	8	8	24
Power over Ethernet (802.3af)	Optional	Optional	Yes (370 Watts)
SFP/Gigabit Ethernet Interfaces	0		2
Analog (dial backup/remote management)	●		●
Protocols			
eBGP/iBGP, OSPF, RIP, Static	●	●	●
Bridging, Spanning Tree and Rapid Spanning Tree	●	●	●
VLAN Trunking (802.1Q)	●	●	●
ATM: PPPoA and PPPoE	●	●	●
VRRP	●	●	●
Multi–VRF	●	●	●
IGMP Snooping		●	●
Routed Protocols			
IP	●	●	●
Quality of Service (QoS)			
VQM	●	●	●
Weighted Fair Queuing (WFQ) and Class–based WFQ	●	●	●
DiffServ –to– 802.1p Mapping	●	●	●
NAT (1:1), NAPT (Many:1), 1:1 Port Translation	●	●	●
Access Contol Lists	●	●	●
Application Level Gateways	●	●	●
MAC–based Port Security	●	●	●
DHCP			
Cllient/Server/Relay	●	●	●
VPN			
Optional Software Upgrade	1950820E2	1950824G2	●
IPSec VPN	●	●	●
DES/3DES/AES Encryption	●	●	●
Hardware Encryption Acceleration	●	●	●
Number of Tunnels	100	500	100
XAUTH: RADIUS/TACAS+ and RSA SecurID	●	●	●
802.1x Port Authentication	●	●	●
Content Filtering			
Native URL Filtering	●	●	●
Websense Integration	●	●	●
Management			
Command Line Interface	●	●	●
Web–based Graphical Interface (HTTP)	●	●	●
HTTP, Telnet, SSH	●	●	●
SNMP, Syslog, RADIUS, and TACACS+	●	●	●
Port Mirroring	●	●	●
n–Command	●	●	●
Firmware Upgrade			
TFTP/FTP	●	●	●
Warranty			
Five–year	●	●	●

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Providing your connectivity needs today, while preparing for future growth.

ADTRAN®'s NetVanta® Series of Modular Access Routers are designed to meet your needs for secure, cost-effective Internet access; MPLS; Frame Relay; point-to-point; ADSL; and Virtual Private Networking (VPN). The NetVanta 3000, 4000, and 5000 routers provide all the necessary components to engineer a complete LAN/WAN connectivity solution between headquarters and branch offices.

NetVanta® 3200/3205

- Single NIM slot, single-Ethernet • Terminates up to two T1s of bandwidth • Supports up to five IPSec VPN tunnels (optional)
- Desktop (NetVanta 3200) and rack-mount (NetVanta 3205) versions • Optional Voice Quality Monitoring (VQM) for VoIP statistics

JENNE PART NUMBER:	Description
1203860G1	NetVanta 3200 Chassis
4200860G2	NetVanta 3200 Chassis with VPN
1203870G1	NetVanta 3205 Chassis
4200870E2	NetVanta 3205 Chassis with VPN

NetVanta 3200 and 3205

NetVanta® 3305

- Dual NIM slot, dual-Ethernet • Terminates up to three T1s of bandwidth • Supports up to 100 IPSec VPN tunnels (optional)

JENNE PART NUMBER:	Description
1202880E1	NetVanta 3305 Chassis
4200880E2	NetVanta 3305 Chassis with VPN

NetVanta 3305

NetVanta® 3430

- Single NIM slot, dual-Ethernet • Performance-enhanced platform supporting RapidRoute™ • Supports up to 100 IPSec VPN tunnels (optional)
- Terminates up to two T1s of bandwidth • Optional Voice Quality Monitoring (VQM) for VoIP statistics
- Wi-Fi® Access Controller for centralized management of NetVanta Wireless Access Points (WAP)

JENNE PART NUMBER:	Description
1202820G1	NetVanta 3430 Chassis, IPv6 ready
4200820E2	NetVanta 3430 Chassis with VPN, IPv6 ready

NetVanta 3430

NetVanta® 3450

- RapidRoute technology for greater performance • Dual Network Interface Module (NIM) slots • CompactFlash slot for auto-provisioning
- Dual Ethernet LAN interfaces for LAN segmentation of broadband backup • Inherent URL filtering for easy content filtering

JENNE PART NUMBER:	Description
1200823G1	NetVanta 3450 Chassis, IPv6 ready
4200823G2	NetVanta 3450 Chassis with VPN, IPv6 ready

NetVanta 3450

NetVanta® 4305

- Three-slot (one Wide Module and two NIM slots), dual-Ethernet • Performance-enhanced platform supporting RapidRoute
- Terminates up to eight T1s of bandwidth • Supports up to 500 IPSec VPN tunnels (optional)
- Optional Voice Quality Monitoring (VQM) for VoIP statistics

JENNE PART NUMBER:	Description
1202890E1	NetVanta 4305 Chassis
4200893E1	NetVanta 4305 with Octal T1/E1 wide module
4200890E2	NetVanta 4305 Chassis with VPN

NetVanta 4305

NetVanta® 4430

- Three-slot (one Wide Module and two NIM slots) • Two combo Gigabit Ethernet or SFP ports and one Fast Ethernet
- Performance-enhanced platform designed for Carrier Ethernet • Terminates up to eight T1s of bandwidth
- Supports up to 1,000 IPSec VPN tunnels (optional) • Optional Voice Quality Monitoring (VQM) for VoIP statistics

JENNE PART NUMBER:	Description
1700630G1#120	NetVanta 4430 Chassis, IPv6 ready
4700633G1	NetVanta 4430 with Octal T1/E1 wide module
4700630G2#120	NetVanta 4430 Chassis with VPN

NetVanta 4430

NETWORK INFRASTRUCTURE SOLUTIONS

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NetVanta® 5305

- Six wide slots and dual-Ethernet • Performance-enhanced platform supporting RapidRoute • Terminates up to two un-channeled T3s of bandwidth
- Supports up to 2,000 IPSec VPN tunnels (optional) • Redundant power supply available • Optional Voice Quality Monitoring (VQM) for VoIP statistics

JENNE PART NUMBER:	Description
4200990L1	NetVanta 5305 Chassis
4200990L2	NetVanta 5305 Chassis with VPN
4200995L1	NetVanta 5305 DC
4200992L1	NetVanta 5305 with T3 Wide Module

NetVanta 5305

NETVANTA® FIXED-PORT ROUTERS

ADTRAN's NetVanta Series of Fixed-port Switch-Routers offers cost-effective IP switching and routing solutions for business-class broadband networks. Based on the widely deployed ADTRAN ® Operating System (AOS), this family of products offers a robust feature set with standards-based functionality and addresses the growing need for secure access to corporate information resources over the Internet.

NetVanta® 3120

- Fixed-port Ethernet-to-Ethernet access router • One 10/100Base-T WAN interface
- Full-featured, managed four-port10/100Base-T switch • Optional Analog interface for dial backup or remote management
- Supports up to 10 IPSec VPN tunnels • Wi-Fi Access Controller for centralized management of 8 NetVanta WAPs

JENNE PART NUMBER:	Description
1700601G2	NetVanta 3120
1700600L2	NetVanta 3120 with DBU

NetVanta 3120

NetVanta® 3130

- Fixed-port ADSL-to-Ethernet access router • One ADSL/ADSL2/ADSL2+ WAN interface
- Full-featured, managed four-port10/100Base-T switch • Optional analog interface for dial backup or remote management
- Supports up to 10 IPSec VPN tunnels • Wi-Fi Access Controller for centralized management of up to 8 NetVanta WAPs

JENNE PART NUMBER:	Description
1700611G2	NetVanta 3130
1700610L2	NetVanta 3130 with DBU

NetVanta 3130

NETVANTA® MODULES

NetVanta Network Interface Modules (NIMS)

JENNE PART NUMBER:	Description
1200861L1	56/64k NIM (1000/3000/4000/7000 Series)
1202862L1	T1/FT1 NIM (1000/3000/4000/7000 Series)
1202863L1	T1/FT1 + DSX-1 NIM (1000/3000/4000 Series)
1200866E1	Serial NIM (1000/3000/4000 Series)
1202869E1	ADSL, Annex A (1000/3000/4000/5000/7000 Series)
1202872L1	Dual T1 (1000/3000/4000/7000 Series

NetVanta® Dial Backup Interface Modules (DIMS)

JENNE PART NUMBER:	Description
1200864L1	NetVanta Analog Modem DIM
1200865L1	ISDN Bri U-Interface NetVanta

NetVanta® Wide Modules

JENNE PART NUMBER:	Description
1200832L1	Un-channeled T3, NetVanta 5000
1202843E1	Octal T1/E-Terminates up to (8) T1/E1s using Multi-link PPP or Multi-link frame relay (NetVanta 4000/5000)
1200934L1	Single, high-speed serial interface, NetVanta 5000

	NetVanta 3200	NetVanta 3205	NetVanta 3430	NetVanta 3450	NetVanta 4305	NetVanta 4430	NetVanta 5305
Part Number AC Power Supply	1203860G1	1203870G1	1202820G1	1200823G1	1202890E1	1700630E1	4200990L1
Part Number DC Power Supply		1203980G1			1200950L1		4200995L1
Product Features							
WAN Slot(s)	1	1	2	2	2 NIM, 1 WIM	2 NIM, 1 WIM	6
10/100Base–T Ports	1	1	2	2	2	2	2
Chassis	Desktop	1U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount	1U Rackmount	3U Rackmount
Power Supply	External	Internal	Internal	Internal	Internal	Internal	Modular
Redundant Power Supply	No	No	No	No	No	No	Optional
WAN Protocols							
MPLS	●	●	●	●	●	●	●
Frame Relay, Multilink Frame Relay	●	●	●	●	●	●	●
PPP, Multilink PPP	●	●	●	●	●	●	●
PPPoE, PPPoA, RFC 1483	●	●	●	●	●	●	●
PPP Dial Backup, ADSL	●	●	●	●	●	●	●
Multihoming	●	●	●	●	●	●	●
Routing Protocols							
eBGP/iBGP, OSPF, RIP Static	●	●	●	●	●	●	●
Bridging, Spanning Tree (802.1D)	●	●	●	●	●	●	●
VLAN Trunking (802.1Q)	●	●	●	●	●	●	●
VRRP	●	●	●	●	●	●	●
Multi–VRF	●	●	●	●	●	●	●
Routed Protocols							
IP	●	●	●	●	●	●	●
QoS							
VQM	●	●	●	●	●	●	●
DiffServ Packet Recognition and Marking	●	●	●	●	●	●	●
Low Latency Queuing	●	●	●	●	●	●	●
Weighted Fair Queuing (WFQ)	●	●	●	●	●	●	●
Class–based WFQ	●	●	●	●	●	●	●
Frame Relay and PPP Fragmentation	●	●	●	●	●	●	●
Firewall							
Stateful Packet Inspection	●	●	●	●	●	●	●
NAT (1:1), NAPT (Many:1),	●	●	●	●	●	●	●
1:1 Port Translation	●	●	●	●	●	●	●
Access Control Lists	●	●	●	●	●	●	●
Denial of Service (DoS) Protection	●	●	●	●	●	●	●
Application Level Gateways	●	●	●	●	●	●	●
Content Filtering							
Native URL Filtering	●	●	●	●	●	●	●
Websense Integration	●	●	●	●	●	●	●
DHCP							
Client/Server/Relay	●	●	●	●	●	●	●
VPN (Optional Upgrade)							
Part Number	1950860G2	1950860G2	19502820G2	1950823G2	4200368E2	1950630G2	4200368L3
IPSec	●	●	●	●	●	●	●
DES/3DES/AES Encryption	●	●	●	●	●	●	●
Hardware Acceleration	No	No	●	●	●	●	●
Number of Tunnels	5	5	100	500	500	1,000	2,000
Management							
Command Line Interface (CLI)	●	●	●	●	●	●	●
HTTP, Telnet, and SSH	●	●	●	●	●	●	●
SNMP and Syslog	●	●	●	●	●	●	●
RADIUS/TACACS+ and RSA Secure–ID	●	●	●	●	●	●	●
802.1x Authentication	●	●	●	●	●	●	●
Firmware Upgrade							
TFTP/FTP	●	●	●	●	●	●	●
Warranty							
Five–year	●	●	●	●	●	●	●

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NETWORK INFRASTRUCTURE SOLUTIONS

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	NetVanta 3120	NetVanta 3130
Part Number	1700601G2	1700611G2
Product Features		
WAN Interface	1 Ethernet	1 ADSL2+
Fast Ethernet Switch Ports	4	4
Chassis	Desktop	Desktop
Power Supply	External	External
Routing Protocols		
eBGP/iBGP, OSPF, RIP Static	●	●
Bridging, Spanning Tree (802.1D)	●	●
VLAN Trunking (802.1Q)	●	●
VRRP	●	●
Multi–VRF	●	●
Routed Protocols		
IP	●	●
Quality of Service (QoS)		
VQM	●	●
DiffServ Packet Recognition and Marking	●	●
Low Latency Queuing	●	●
Weighted Fair Queuing (WFQ)	●	●
Class–based WFQ	●	●
Firewall		
Stateful Packet Inspection	●	●
NAT (1:1), NAPT (Many:1),	●	●
1:1 Port Translation	●	●
Access Control Lists	●	●
Denial of Service (DoS) Protection	●	●
Application Level Gateways	●	●
Content Filtering		
Native URL Filtering	●	●
Websense Integration		
DHCP		
Client/Server/Relay	●	●
VPN (Optional Upgrade)		
Part Number	Included	Included
IPSec	●	●
DES/3DES/AES Encryption	●	●
Hardware Acceleration		
Number of Tunnels	10	10
Management		
Command Line Interface (CLI)	●	●
HTTP, Telnet, and SSH	●	●
SNMP and Syslog	●	●
RADIUS/TACACS+ and RSA Secure–ID	●	●
802.1x Authentication	●	●
Firmware Upgrade		
TFTP/FTP	●	●
Warranty		
Five–year	●	●

## ADTRAN Bluesocket Virtual WLAN

Smartphones. Tablets. E-Readers. Netbooks. Laptops. The massive influx of mobile devices is straining your customers' Wi-Fi® networks. And hardware controller-based WLANs are unable to handle this flood of new mobile devices. Now break through the hardware controller barriers with ADTRAN®'s Bluesocket virtual Wireless LAN (vWLAN) – the industry's first cloud-enabled, VMware®-based wireless LAN (WLAN) solution. ADTRAN's Bluesocket vWLAN solution brings the power of virtualization to Wi-Fi, with a cloud-enabled control and management architecture, providing enterprises maximum scalability, reliability and security. Bluesocket vWLAN:

· Eliminates the cost and scale constraints imposed by hardware-based controllers
· Offers cost-effective scaling by supporting 1,500 APs and 48,000 users on a single software instance
· Provides cloud-based control (public or private), allowing maximum scale with centralized control
· Applies security policies at the edge with intelligent 802.11n access points that have a built-in stateful firewall and W-IDS
· Maximizes reliability with a high-availability option that ensures "zero packet loss"
· Offers the unique ability to manage users coming in through third-party APs, protecting customers existing investments
· Reduces power needs by 80%, resulting in reduction in a company's carbon footprint.

Bluesocket vWLAN is available for licensing and deployment within a private cloud, or as a hosted WLAN service from one of ADTRAN's leading service provider partners.

The vWLAN Solution

✓ Virtual Controller Software
✓ Access Point(s)
✓ Access Point License(s)
✓ Software Support for Access Point(s)
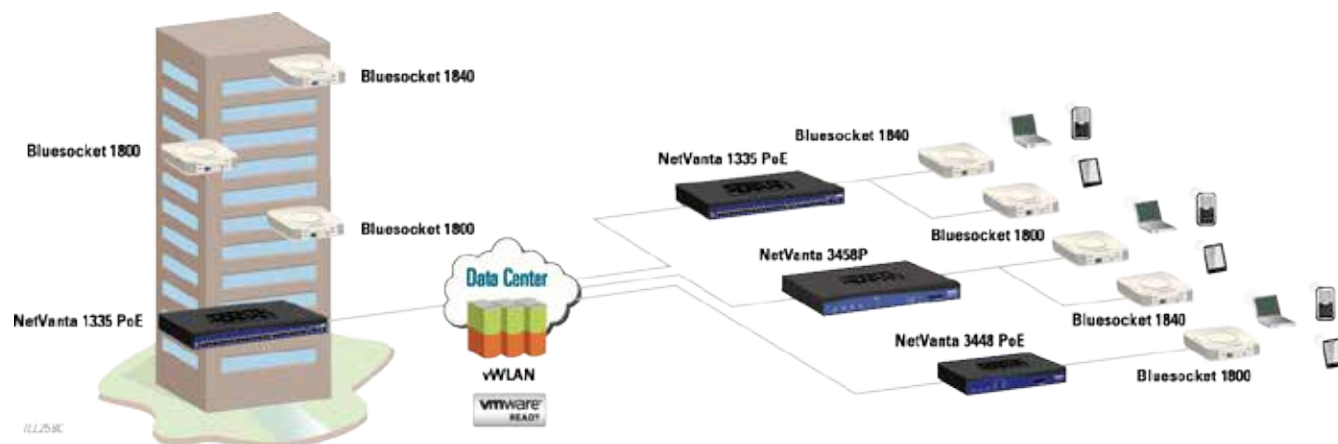
vWLAN Servers (all vWLAN Servers Require AP Licenses)

The Bluesocket vWLAN Server (1700900F1) is an Intel-based hardware appliance with vWLAN software pre-loaded. Rack-mountable appliance.

JENNE PART NUMBER:	Name	Description
1951900G1	Bluesocket vWLAN VMware-Ready Software	For existing VMware ESX/ESXi platforms. vWLAN can be deployed on VMware's hyper-vision.
1700900F1	Bluesocket vWLAN Server	Pre-loaded Bundle, includes appliance.

vWLAN Access Point License (This License is Required for Each Access Point)

JENNE PART NUMBER:	Name	Description
1951901G1	vWLAN Access Point License	License Fee per Access Point for all vWLAN Servers, at either initial purchase or future expansion. Includes Guest Access license (Drop Ship).

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NETWORK INFRASTRUCTURE SOLUTIONS

NETWORK INFRASTRUCTURE SOLUTIONS

ADTRAN Bluesocket Access Points

The Bluesocket Access Points are 802.11a/b/g/n Access Points ideally suited for organizations moving toward true enterprise mobility. As an integral component of the Virtual Wireless LAN (vWLAN) solution, the Bluesocket Access Points are completely plug-and-play requiring no manual configuration and deliver optimal performance with ADTRAN's DynamicRF™ technology. Whether you want to add wireless to your office or light up an entire campus, the Bluesocket Access Points are designed to meet your needs.

· Simple zero-config deployment
· DynamicRF delivers automatic channel and power adjustments
· Integrated RF IDS protects WLAN from rogue APs and wireless attackers
· Enterprise-class and secure over WLAN: Enterprise QoS (WMM/802.11e), Diffserv, Controller prioritization, Seamless layer-3 roaming

ADTRAN Bluesocket APs
(All Bluesocket AP's Require a vWLAN AP License and an ACES Support Option)

JENNE PART NUMBER:	Name	Description
1700910F1	Bluesocket 1800 802.11a/b/g/n	Indoor Wireless Access Point with internal MIMO antenna array. No external antenna connectors. Includes wall/ceiling mount kit. Recessed ceiling mount kit for suspended ceilings sold separately. Requires IEEE 802.3af class 3 PoE or 12 volt DC Power adapter, both sold separately.
1700911F1	Bluesocket 1840 802.11a/b/g/n	Indoor Wireless Access Point with 6 RPSMA Jack connectors for external antennas. No internal antenna. Includes wall/ceiling mounting kit. Requires external antennas sold separately. Requires IEEE 802.3af class 3 PoE or 12 volt DC Power adapter, both sold separately.
1700912F1	Bluesocket 1840 802.11a/b/g	Indoor Wireless Access Point with 6 RPSMA Jack connectors for external antennas. No internal antenna. Includes wall/ceiling mounting kit. Requires external antennas sold separately. Requires IEEE 802.3af class 3 PoE or 12 volt DC Power adapter, both sold separately.
1700954F1	Bluesocket 1920 802.11a/b/g/n	Indoor Wireless Access Point: Dual Radio, Full 2x2:2 internal MIMO antenna array, supports 300 Mbps per radio. Includes wall/ceiling mount kit. Requires IEEE 802.3af class 3 PoE or 12 volt DC Power adapter, both sold separately.
1700955F1	Bluesocket 1925 802.11a/b/g/n	Indoor Access Point: Dual Radio, Full 2x2:2 with 4 RP-SMA connectors for external antennas, supports 300 Mbps per radio. Includes wall/ceiling mounting kit. Requires external antennas sold separately. Requires IEEE 802.3af class 3 PoE or 12 volt DC Power adapter, both sold separately.
1700950F1	Bluesocket 1930 802.11a/b/g/n	Indoor Wireless Access Point: Dual radio, 3x3:3, Full 3x3:3 internal MIMO antenna array, supports 450 Mbps per radio. Includes wall/ceiling mount kit. Requires IEEE 802.3af class 3 PoE injector or 12 volt DC Power adapter, both sold separately.
1700951F1	Bluesocket 1935 802.11a/b/g/n	Indoor Wireless Access Point: Dual Radio, Full 3x3:3 with 6 RP-SMA connectors for external antennas, supports 450 Mbps per radio. Includes wall/ceiling mounting kit. Requires external antennas sold separately. Requires IEEE 802.3af class 3 PoE injector or 12 volt DC Power adapter, both sold separately.
1700952F1	Bluesocket 1940 802.11a/b/g/n	Outdoor Wireless Access Point: Dual radio, Full 3x3:3 with 6 N-type connectors, supports 450 Mbps per radio. Includes wall/ceiling mounting kit. Requires IEEE 802.3af PoE injector or 802.3at PoE+ injector, both sold separately.

Bluesocket 1800/1840

Bluesocket 1920/1925

Bluesocket 1930/1935

Bluesocket 1940

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Software Options and Accessories

JENNE PART NUMBER:	Name	Description
1951905G1	Bluesocket 802.11n Software Upgrade for BSAP	1840 a/b/g 802.11n Upgrade License. Only valid with prior purchase of a BSAP-1840 Model 1700912F1.
1951910G1	Bluesocket Unified User Access Control Software	Wired user license fee per access point. Software license enables the support of up to 32 users per access point from a source other than a BlueSecure Access Point BSAP-1800 or BSAP-1840 (Drop Ship).
1951904G1	Bluesocket High Availability Access Point Software	Provides hitless failover to secondary control instance (Drop Ship).
1700939F1	Bluesocket set of three 2.4Ghz & 5Ghz Omni Antennas for Bluesocket 1840	Required antennas for BSAP-1840. Complete set of 6 antennas (Three 2.4GHz and Three 5Ghz OMM antennas).
1700920F1	Single port (10/100/1000) IEEE 802.3af compliant Power over Ethernet (PoE) injector for use with the BSAP-1800 and BSAP-1840	
1700921F1	Recessed suspended ceiling mount kit for BSAP-1800	
1700922F1	12V External Power Adapter for use with the BSAP-1800 and BSAP-1840	
1700923F1	802.3at Compliant PoE Injector	

BLUESOCKET - ACES vWLAN SOLUTION

ADTRAN Bluesocket vWLAN Software Support
(Required Purchase with Each AP, Required for Software Updates)

JENNE PART NUMBER:	Name	Description
1100AM500111V	ACES Software Support Protection Per Access Point; 1 year, M-F 5x8	Includes software updates and support via telephone and email. Base License Only. Covers support for vWLAN Server, License and all Access Points. Quantity must equal the total number of Access Points licensed.
1100AM500116V	ACES Software Support Protection Per Access Point; 1 year, M-F 5x8	Includes software updates and support via telephone and email. Includes Base & High Availability software support. Covers support for vWLAN Server, License and all Access Points. Quantity must equal the total number of Access Points licensed.
1100AM500311V	ACES Software Support Protection Per Access Point; 3 years, M-F 5x8	Includes software updates and support via telephone and email. Base License Only. Covers support for vWLAN Server, License and all Access Points. Quantity must equal the total number of Access Points licensed.
1100AM500316V	ACES Software Support Protection Per Access Point; 3 years, M-F 5x8	Includes software updates and support via telephone and email. Base License Only. Covers support for vWLAN Server, License and all Access Points. Quantity must equal the total number of Access Points licensed.
1100AM500511V	ACES Software Support Protection Per Access Point; 5 years, M-F 5x8	Includes software updates and support via telephone and email. Base License Only. Covers support for vWLAN Server, License and all Access Points. Quantity must equal the total number of Access Points licensed.
1100AM500516V	ACES Software Support Protection Per Access Point; 5 years, M-F 5x8	Includes software updates and support via telephone and email. Includes Base & High Availability software support. Covers support for vWLAN Server, License and all Access Points. Quantity must equal the total number of Access Points licensed.
1100AM700111V	ACES Premium Comprehensive Software Support Protection Per Access Point; 1 year, 7x24x365	Includes software updates and support via telephone and email. Base License Only. Covers support for vWLAN Server, License and all Access Points. Quantity must equal the total number of Access Points licensed.
1100AM700116V	ACES Premium Comprehensive Software Support Protection Per Access Point; 1 year, 7x24x365	Includes software updates and support via telephone and email. Includes Base & High Availability software support. Covers support for vWLAN Server, License and all Access Points. Quantity must equal the total number of Access Points licensed.
1100AM700311V	ACES Premium Comprehensive Software Support Protection Per Access Point; 3 years, 7x24x365	Includes software updates and support via telephone and email. Base License Only. Covers support for vWLAN Server, License and all Access Points. Quantity must equal the total number of Access Points licensed.
1100AM700316V	ACES Premium Comprehensive Software Support Protection Per Access Point; 3 years, 7x24x365	Includes software updates and support via telephone and email. Includes Base & High Availability software support. Covers support for vWLAN Server, License and all Access Points. Quantity must equal the total number of Access Points licensed.
1100AM700511V	ACES Premium Comprehensive Software Support Protection Per Access Point; 5 years, 7x24x365	Includes software updates and support via telephone and email. Base License Only. Covers support for vWLAN Server, License and all Access Points. Quantity must equal the total number of Access Points licensed.
1100AM700516V	ACES Premium Comprehensive Software Support Protection Per Access Point; 5 years, 7x24x365	Includes software updates and support via telephone and email. Includes Base & High Availability software support. Covers support for vWLAN Server, License and all Access Points. Quantity must equal the total number of Access Points licensed.

NETWORK INFRASTRUCTURE SOLUTIONS

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NetVanta® 1234 and 1234P

• 24-port managed Layer 2 Fast Ethernet switch • 802.3af PoE switch delivering 15.4 watts per port (1234P model)
• 180 Watts total PoE Power • Four Gigabit ports for uplinks or stacking • Two SFP module slots for optical connections
• Non-blocking switching capacity up to 18.8 Gbps • 1U, 19-inch rackmount metal enclosure • Wi-Fi access controller • Limited Lifetime Warranty

JENNE PART NUMBER:	Description
1700594G1	NetVanta 1234 (1st Generation)
1702594G1	NetVanta 1234 (2nd Generation)
1700595G1	NetVanta 1234 PoE (1st Generation)
1702595G1	NetVanta 1234 PoE (2nd Generation)

NetVanta 1234

NetVanta® 1238 and 1238P

• 48-port, managed, Layer 2 Fast Ethernet switch • 802.3af PoE switch delivering 15.4 watts per port (1238P model) • 370 Watts total PoE Power
• Four Gigabit ports for uplinks or stacking • Two SFP module slots for optical connections • Non-blocking switching capacity up to 23.6 Gbps
• 1U, 19-inch rackmount metal enclosure • Wi-Fi access controller • Limited Lifetime Warranty

JENNE PART NUMBER:	Description
1700598G1	NetVanta 1238 (1st Generation)
1702598G1	NetVanta 1238 (2nd Generation)
1700599G1	NetVanta 1238 PoE (1st Generation)
1702599G1	NetVanta 1238 PoE (2nd Generation)

NetVanta 1238

NetVanta® 1534 and 1534P

• 26-port, managed, Layer 2/Layer 3 Lite Gigabit Ethernet switch • 802.3af PoE switch delivering 15.4 watts per port (1534P model)
• 370 Watts total PoE Power • Two SFP module slots for optical connections • Non-blocking switching capacity up to 62 Gbps
• Wi-Fi access controller • CompactFlash slot for configuration files and new firmware
• 1U, 19-inch rackmount metal enclosure • Limited Lifetime Warranty

JENNE PART NUMBER:	Description
1702590G1	NetVanta 1534 (Half-Rack in Size) (2nd Generation)
1702591G1	NetVanta 1534P PoE (2nd Generationz) 28 port, PoE+, Layer 3 Lite, 370 Watts

NetVanta 1534

NetVanta® 1544 and 1544P

• 28-port, managed, Layer 3 Gigabit Ethernet switch
• 802.3af PoE switch delivering 15.4 watts per port (1544P model) • 370 Watts total PoE Power • 1U, 19-inch rackmount metal enclosure
• Four SFP module slots for optical connections; up to 2.5 Gbps bandwidth with each optical connection • Wi-Fi access controller
• Fit two 1544's side-by-side in 19" rack • Non-blocking switching capacity up to 68 Gbps
• CompactFlash® slot for configuration files and new firmware • Limited Lifetime Warranty

JENNE PART NUMBER:	Description
1702544G1	NetVanta 1544 (2nd Gen), 28-port (Half-Rack in Size)
1702545G1	NetVanta 1544 PoE (2nd Gen), 28-port PoE (Half-Rack in Size)

NetVanta 1544

NetVanta® 1544F

• 28-port multilayer Gigabit Ethernet aggregation switch • 24-standard Gigabit SFP ports and four enhanced SFP ports • Limited Lifetime Warranty
• Enhanced SFP ports support standard 1 Gbps or enhanced 2.5 Gbps data rates • Non-blocking, 68 Gbps switching capacity • Wi-Fi access controller
• Line rate Layer 2 and Layer 3 switching • Static routes, RIP V1/V2, OSPF and BGP • Virtual Router Redundancy Protocol (VRRP)

JENNE PART NUMBER:	Description
1700546G1#120	NetVanta 1544F, Fiber 28-port

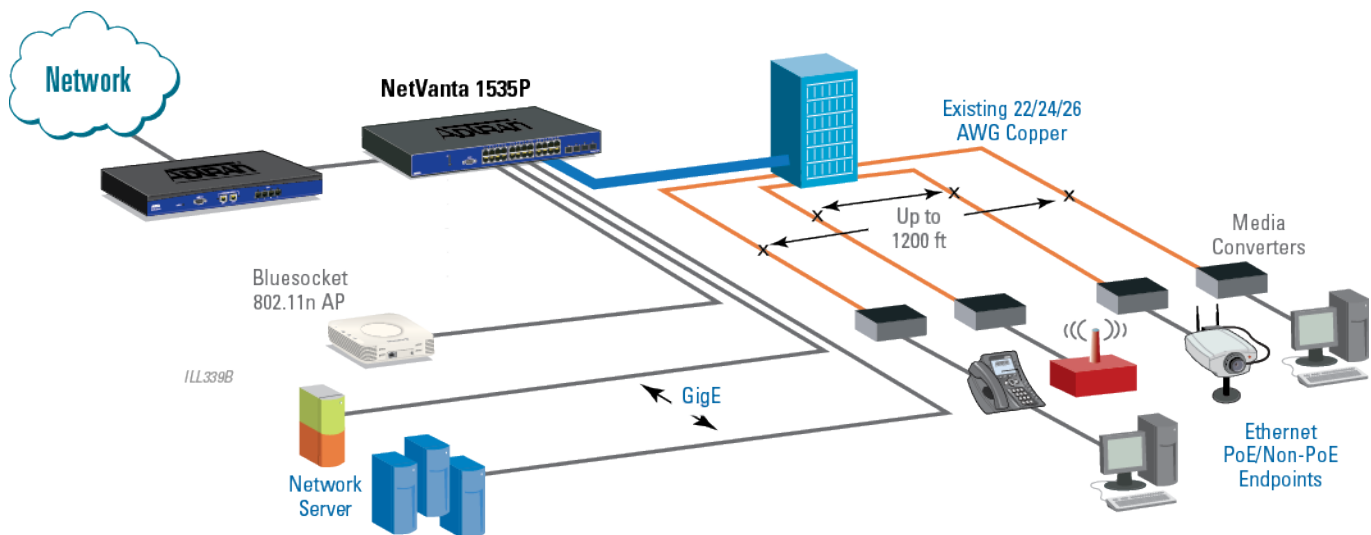NetVanta 1544F

Netvanta® 1535P

ActivReach Ethernet Switch

The NetVanta 1535P is a managed, 28-port PoE, Layer 3 Lite, Gigabit Ethernet switch with ActivReach Ethernet technology designed for ease-of-deployment, as well as fast, secure, cost-effective Local Area Network (LAN) switching. Through its innovative design, the NetVanta 1535P allows for ultimate flexibility utilizing standard 10/100/1000Base-T Ethernet or ActivReach Ethernet for PoE and connectivity in a variety of cabling environments.

In addition to standard 10/100/1000Base-T capabilities, the NetVanta 1535P features ADTRAN's ActivReach Ethernet technology which allows speeds of 100 Mbps native Ethernet over voice-grade copper and over significant distances. Configurable per-port, ActivReach Ethernet is capable of delivering up to 15.4 W of PoE, as well as 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 cutting-edge VoIP, UC, video, Wi-Fi and IP surveillance applications utilizing a building's existing voice-grade wiring. In addition, with speeds up to 100 Mbps, ActivReach Ethernet also provides an extremely cost-effective means for desktop connectivity where CAT5 cabling does not already exist.

• Unlocks the power of Ethernet • Triples reach up to 365 meters (1200 feet) • Lifetime warranty and ADTRAN's worldclass support

• Provides 100 Mbps throughput in ActivReach mode or 1000 Mbps in standard Ethernet mode

• Enables all Ethernet applications – VoIP, IP Surveillance, Wi-Fi, Video

• Supports variety of IP endpoints (IP Phones, Video Phones, APs, IP Security Cameras) • Provides clear upgrade path to Gigabit Ethernet

JENNE PART NUMBER:	Description
1702595G10	NetVanta 1535P, Layer 3, Gigabit Ethernet Switch with ActivReach Ethernet
1702595G12	Netvanta ActivReach Media Converter (Required for ActivReach Capability)

4702595G10

4702595G12

NetVanta® 1638 and 1638P

• 48-port, managed, Layer 3 Gigabit Ethernet switch • 802.3af and 802.3at PoE/PoE+ switch delivering up to 30 watts per port (1638P model)

• Two high speed interface slots can accommodate up to four 10-Gigabit links for uplinks or stacking • 370 Watts total PoE Power

• Non-blocking switching capacity up to 176 Gbps • 1U, 19-inch rackmount metal enclosure • Wi-Fi access controller • Limited Lifetime Warranty

JENNE PART NUMBER:	Description
4700568F1	NetVanta 1638 with Power Supply
4700569F1	NetVanta 1638P with Power Supply
1700470F1	Dual Stacking XIM Module
1700471F1	Dual SFP + XIM Module
1700473F1	Dual SFP XIM Module
1700460F1	Optional Power Supply for 1638 (4700568F1)
1700462F1	Optional Power Supply for 1638P PoE (4700569F1)

NetVanta 1638

NETWORK INFRASTRUCTURE SOLUTIONS

NETWORK INFRASTRUCTURE SOLUTIONS

	NetVanta 1234	NetVanta 1238	NetVanta 1534	NetVanta 1544	NetVanta 1544F	NetVanta 1638
Chassis Part Number	1700594G1	1700598G1	1702590G1	1702544G1	1700546G1	4700568F1
Chassis with PoE Part Number	1700595G1	1700599G1	1702591G1	1702545G1		4700569F1
Product Features						
10/100Base T Ethernet Ports	24	48				
10/100/1000Base T Ethernet Ports	2	2	24	24		48
Combo 1000Base T/SFP Ports	2	2				
SFP Fiber Interfaces			4	4	28	
XIM Option Slots						2
System Performance						
Layer 2 Switching	•	•	•	•	•	•
Layer 3 Switching			•	•	•	•
Switching Capacity	18.8 Gbps	23.6 Gbps	62 Gbps,	68 Gbps	68 Gbps	176 Gbps
Maximum Number of Mac Address	8,000	8,000	8,000,	16,000	16,000	32,000
Auto MDI/MDI X	•	•	•	•		•
Cable Diagnostics	•	•	•	•		•
Spanning Tree						
802.1D (Spanning Tree)	•	•	•	•	•	•
802.1w (Rapid Spanning Tree)	•	•	•	•	•	•
Clustering	•	•	•	•	•	
Number of Switches Supported	16	16	16	16	16	
Link Aggregation						
802.3ad	•	•	•	•	•	•
Quality of Service (QoS)						
802.1p Class of Service (CoS)/Recognition and Marking	•	•	•	•	•	•
Number of Egress Queues	4	4	4	4	4	4
DiffServ to 802.1p Mapping	•	•	•	•	•	•
Storm Control						
Broadcast, Multicast, Unicast	•	•	•	•	•	•
Virtual LANs						
802.1Q VLANs/VLAN Trunking	•	•	•	•	•	•
GARP VLAN Registration Protocol (GVRP)	•	•	•	•	•	•
Protected Ports	•	•	•	•	•	•
Maximum Number of VLANs	255	255	255	255	255	255
Multicast						
IGMP Snooping	•	•	•			
Power over Ethernet (PoE)						
802.3af	•	•	•	•		•
802.3at			•	•		•
Legacy PoE	•	•	•	•		•
Total PoE Power	180 Watts	370 Watts	370 Watts	370 Watts		370 Watts
Management						
Command Line Interface (CLI)	•	•	•	•	•	•
Web–based Graphical User Interface (GUI)	•	•	•	•	•	•
Telnet/SSH (CLI)	•	•	•	•	•	•
HTTP/SSL (GUI)	•	•	•	•	•	•
SNMP	•	•	•	•	•	•
SYSLOG	•	•	•	•	•	•
Discovery Protocol (LLDP/LLDP MED)	•	•	•	•	•	•
Port Mirroring	•	•	•	•	•	•
Craft/Console Port (DB 9)	•	•	•	•	•	•
n Command	•	•	•	•	•	•
Compact Flash Provisioning					•	
Port Scheduler	•	•	•	•	•	•
tcl Scripting	•	•	•	•	•	•
Security						
TACACS+ and RADIUS	•	•	•	•	•	•
Mac based Port Security	•	•	•	•	•	•
802.1x Port Authentication	•	•	•	•	•	•
Wireless						
Wireless Access Controller	•	•	•	•	•	•
Warranty						
Limited Lifetime	•	•	•	•	•	•

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ADTRAN®'s IP Business Gateways combine the functionality of ADTRAN's industry-leading integrated access devices with a SIP and analog gateway to provide VoIP deployment, with legacy equipment support. The IP Business Gateways supports SIP, G.168 Echo Cancellation, G.711, G.729a CODECs.

NetVanta® 6310

- Modular IP Business Gateway • 1 DSX-1 port
- 2 10/100Base-T Ethernet Interface • 2 NIM 2 Slots

JENNE PART NUMBER:	Description
1700100G1	NetVanta 6310
4700100G1SBC	NetVanta 6310 with Session Border Control Pack

NetVanta® 6330

- Modular IP Business Gateway • 2 FXO ports
- 2 10/100Base-T Ethernet Interface • 1 NIM 2 Slots

JENNE PART NUMBER:	Description
47006336G1	NetVanta 6330, 24 FXS Ports
19506310G3	Session Border Control Feature Pack Upgrade

NetVanta 6310 Voice INT Modules (VIM2)

JENNE PART NUMBER:	Description
1700102G1	Analog 4-port station (FXS)
1700105G1	Analog 4-port trunk (FXO)
1700108G1	Analog 8-port station (FXS)
1700109G1	Analog 8-port trunk (FXO)
1700111G1	Analog 4-port station (FXS) /4-port trunk (FXO)

NetVanta 6310 Network INT Modules (NIM2)

JENNE PART NUMBER:	Description
1700103G1	Quad e.SHDSL EFM Annex A NIM2
1700106G1	Quad T1/E1 EFM NIM2
1700107G1	Ethernet NIM2

NetVanta 6310

NetVanta® 6355

- VoIP SIP-Active Gateway with PoE Switch • 24 10/100 Eth PoE switchports, two combo 1000Base-T/SFP Gigabit Uplink
- 2 built-in FXS and 2 built-in FXO ports. Options for 2 NIM/VIM modules • Uses the same NIM/VIM modules as the NetVanta 7000 Series

| JENNE PART NUMBER:	Description
1200740E1	NetVanta 6335
19506355G3	SBC Feature Pack Upgrade

NetVanta 6355

Total Access 900 Series

The Total Access 900 Series of T1 IP Business Gateways are designed for carrier SIP/MGCP Voice over IP (VoIP) networks. These products feature all of the same robust routing and voice features of the widely deployed Total Access IADs, with a host of new features.

JENNE PART NUMBER:	Name	Description
1 10/100Base-T Ethernet interface		
4212904L1	Total Access 904	One T1 network interface, 4 FXS ports, DXS-1 port
4212908L1	Total Access 908	One T1 network interface, 8 FXS ports, DXS-1 port
4212912L1	Total Access 912	One T1 network interface, 12 FXS ports, DXS-1 port
4212916L1	Total Access 916	One T1 network interface, 16 FXS ports, DXS-1 port
4212924L1	Total Access 924	One T1 network interface, 24 FXS ports, DXS-1 port
2 10/100Base-T Ethernet interface		
4242908L1	Total Access 908e	4 T1 network interface, 8 FXS ports, DXS-1 port
4242908L3	Total Access 908e with VPN	4 T1 network interface, 8 FXS ports, DXS-1 port, with VPN (2nd Generation)
4242908L1SBC	Total Access 908e with SBC	4 T1 network interface, 8 FXS ports, DXS-1 port, with SBC
4242916L1	Total Access 916e	4 T1 network interface, 16 FXS ports, DXS-1 port
4242924L1	Total Access 924e	4 T1 network interface, 24 FXS ports, DXS-1 port
4242924L2	Total Access 924e (2nd Gen)	4 T1 network interface, 16 FXS ports, 8 FXO ports, DXS-1 port

Total Access 912

NETWORK INFRASTRUCTURE SOLUTIONS

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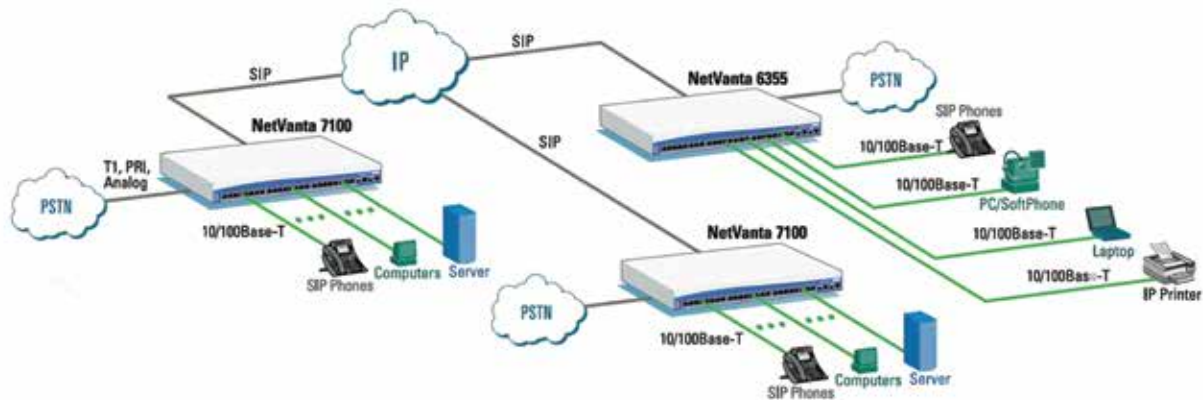
INTEGRATED ACCESS DEVICES (IADS)

TOTAL Access® 604

Fixed-Port IAD with 4 Analog FXS Ports

• Provides 4 Fixed Analog Voice Interfaces • 10 year warranty
• Integrated IP Router: Frame Relay and PPP Support
• Choice of T1 TDM or ATM Network Interface
• 4 Analog FXS ports per TR-57, 50 pin Amp • Rugged metal case
• V.35 DTE Interface: Nx56 or Nx64 Kbps for external router
• Optional battery backup • ADSL and SHDSC models available

JENNE PART NUMBER:
4203640L1#TDM   T1 TDM Network interface
4203640L1#ATM   T1 ATM Network interface

4203640L1#TDM

TOTAL Access 608

Fixed-Port IAD with 8 Analog FXS Ports

• Provides 8 Fixed Analog FXS ports per TR-57, 50 pin Amp
• Integrated IP Router: Frame Relay and PPP Support
• Choice of T1 TDM or ATM Network Interface
• V.35 DTE Interface: Nx56 or Nx64 Kbps for external router
• Rugged metal case • Optional battery backup • 10 year warranty
• ADSL and SHDSC models available

JENNE PART NUMBER:
4203680L1#TDM   T1 TDM Network interface
4203680L1#ATM   T1 ATM Network interface

4203680L1#TDM

TOTAL Access 612

Fixed-Port IAD with 12 Analog FXS Ports

• Provides 12 Fixed Analog FXS ports per TR-57, 50 pin Amp
• Integrated IP Router: Frame Relay and PPP Support
• Choice of T1 TDM or ATM Network Interface
• V.35 DTE Interface: Nx56 or Nx64 Kbps for external router
• Rugged metal case • Optional battery backup • 10 year warranty
• SHDSL models available

JENNE PART NUMBER:
4203612L1#TDM   T1 TDM Network interface
4203612L1#ATM   T1 ATM Network interface

4203612L1#TDM

TOTAL Access 624

Fixed-Port IAD with 24 Analog FXS Ports

• Provides 24 Fixed Analog Voice Interfaces
• Integrated IP Router: Frame Relay and PPP Support
• Choice of T1 TDM or ATM Network Interface
• V.35 DTE Interface: Nx56 or Nx64 Kbps for external router
• Rugged metal case • Optional battery backup • 10 year warranty
• SHDSL models available

JENNE PART NUMBER:
4203624L1#TDM   T1 TDM Network interface
4203624L1#ATM   T1 ATM Network interface

4203624L1#TDM

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MULTIPLEXERS

MX2800™ M13 Multiplexer
- Transports up to 28 T1s over Channelized T3
- Supports G.747 for transport of up to 21 E1s
- AC and DC (-48 V or 24 V) versions available • Connector backplane

JENNE PART NUMBER:
4205290L2   Redundant AC with Modem
4205290L1   Non-Redundant AC with Modem
(Other Models Available)

4205290L1

NETWORK TERMINATION - NT1/DSU/CSU/TSU

T1 CSU ACE
External CSU
- T1 CSU (Channel Service Unit) used for Interfacing/Terminating CPE Equipment to a T1 Line
- 120VAC Power Supply • Transparently passes PRI • Desk/Wall Mount • Front panel status LEDs
- Supports framed (B8ZS or AMI) or unframed signal formats • 1 RJ to RJ Cable

JENNE PART NUMBER:	Description
1203022L1	External CSU
1903022L1	12-Volt Power Supply Round Connector
1200412G1	19-inch rackmount shelf which houses one standalone device

1203022L1

T1 ESF CSU ACE™
External ESF CSU
- Serves as a demarcation point between network T1 and customer T1 equipment
- Supports conversation for signal framing and line coding (ESF to D4, B8ZS to AMI)
- T1 line conditioning and jitter tolerance per ANSI T1.403, T1.102, and AT and T TR 62411 • Transparently passes PRI

JENNE PART NUMBER:	Description
1204025L1	External ESF CSU

1204025L1

TSU ACE
External T1/FT1 DSU/CSU
- Full-Featured T1/FT1 Data Service Unit/Channel Service Unit • Single V.35 DTE Interface
- Provides Interface Between T1/FT1 Service and End User's Data Terminal Equipment (DTE)
- For LAN-to-LAN Bridging, Frame Relay Term, Video Conference • 115 VAC, 5 watts
- Nx56 or Nx64 Operation for Data Rates to 1.53 Mbps •Provides Access to Dedicated Point-to-Point T1 Service

JENNE PART NUMBER:	Description
1202295L1	External T1/FT1 DSU/CSU
1200411G1	19-inch rackmount shelf which houses one standalone device

1202295L1

ISU 512™
ISDN Inverse Multiplexer
- Terminates up to four BRI lines • Includes NT1 functionality
- Supports multiple switches, Northern Telecom and National ISDN-1 • S/T version available
- Terminates ISDN Basic Rate 2-wire U Interface (BRI) • For Speeds from 56 Kbps to 512 Kbps
- For Video Conferencing, LAN/WAN connectivity, high speed file transfer, audio broadcasting, and T1 backup applications

JENNE PART NUMBER:	Description
1202086L1	ISDN Inverse Multiplexer

1202086L1

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NETWORK INFRASTRUCTURE SOLUTIONS

ACES (ADTRAN Custom Extended Services)

ACES is a comprehensive and flexible installation and maintenance service program designed to protect your network from unnecessary downtime. With ACES protection, if something goes wrong with the ADTRAN equipment you will have priority access to fully trained and ready-to-assist technical experts.

With ACES, you can resell our stand-alone services or customize coverage to supplement your own services program to meet your customers' needs. You can protect new or existing ADTRAN equipment in the network, at host or remote locations.

ACES INSTALLATION & MAINTENANCE

ACES Installation
ACES delivers a complete line of professional solutions designed to meet the needs of our enterprise channel, including implementation of ADTRAN Unified Communication products, as well as installation and maintenance solutions designed to meet the unique support requirements of the IP Telephony customer.

ACES Maintenance
ACES offers five different maintenance programs ranging from five days-a-week, eight hours-a-day and next business day equipment replacement to seven days-a-week, twenty-four hours-a-day and equipment replacement within four hours of notification.

ADTRAN offers many different programs for equipment maintenance, including ACES UC / BCS Maintenance UC software updates, configuration file back-ups, and configuration management for the NetVanta 7000 as well as special programs for IPT Maintenance.

ACES UC Software Assurance
ADTRAN Software Assurance (SA) is a comprehensive maintenance offering designed to help you get the most out of your Unified Communications investment.

If you need help with a solution or other sales support, please call the ACES Help Desk at 888-874-ACES.

RESELLER PROGRAMS

ADTRAN ADVANTAGE PARTNER PROGRAM

Partner with a company who designs products specifically for SMB customers and prices them appropriately for the market. With the right products at the right price, you will have less pressure to offer discounts – you can win more deals, and close deals faster with ADTRAN. Imagine, double-digit margins, plus the opportunity to offer managed services and provide recurring service revenue.

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