



x900-24X SERIES

Advanced Gigabit Layer 3+ Expandable Switch



x900-24XT

 2×30 Gbps expansion bays $24 \times 10/100/1000$ BASE-T (RJ-45) copper ports

x900-24XS

 2×30 Gbps expansion bays 24×1000 BASE-X SFP ports

Unmatched Flexibility

The x900-24X Layer 3+ switches have two high-speed 30Gbps expansion bays which provide a high level of port flexibility and application versatility unmatched by any other IRU Gigabit Ethernet switch on the market. The expansion modules can be used in a variety of configurations to provide tailored solutions that meet wideranging physical networking requirements.

10GbE expansion modules and hot-swappable XFPs provide high-speed, high-capacity fiber uplinks, with the option of either 10Gbps or 20Gbps uplink capacity to the network core. Resiliency can be achieved by using two 10GbE modules and MSTP (802.1s) for fast failover on link failure. This is suitable for wiring closet aggregation of gigabit to the desktop links and aggregating gigabit uplinks from other network switches.

Ethernet Protected Switched Rings (EPSR) and 10 GbE modules allow several x900-24X switches to form a protected ring with sub 50ms failover. This feature is perfect for high performance at the core of enterprise or provider access networks.

Combined with one or two 12-port 10/100/1000BASE-T (RJ-45) copper expansion modules, the x900-24X is ideal for gigabit to the desktop or gigabit aggregation applications. The 12 x 1000BASE-X (SFP) expansion modules offer variable port options, designed for aggregating mixed copper and fiber links in server farms and data center applications.

x900-24X Layer 3+ switches provide maximum

Key Features

Performance

- Layer 2 and 3 switching and routing at wire-speed
- Full IPv4 and IPv6 routing
- Built from a 150Gbps switch fabric yielding 71.4 Million packets per second performance
- Provides up to 256K IPv4 route entries
- Supports full 4096 VLANs
- Supports 4096 Layer 3 interfaces
- VLAN double tagging
- Private VLANs, providing security and port isolation of multiple customers using the same VLAN
- Supports 9KB Jumbo frame size¹ for data center and server aggregation applications
- Gigabit SFP ports will support any combination of 10/100/1000BASE-T, 100BASE-X, or 1000BASE-X CWDM SFPs
- Extensive wire-speed traffic classification for ACLs and QoS
- Advanced routing protocols OSPF, BGP-4, RIP, RIPv2 and RIPv6, DVMRP, PIM-SM, PIM-DM
- DHCP Option 82
- Wire-speed multicasting

Reliability and Future Proofing

- Two 30Gbps expansion bays supporting a choice of modules, including 1x 10GbE, 12 x 1GbE (SFP), and 12 x 1GbE (RJ45) for port flexibility and application versatility
- IRU form factor, high port density and front-to-back cooling, ideal for high density rack and wiring closet installations
- Eliminates the need for redundant power supplies by providing power supplies that are hot-swappable and load-sharing
- Full environmental monitoring of PSUs, fans, temperature and internal voltages, with SNMP traps to alert network managers in case of any failure
- Cable fault detection total cable length and distance to fault (fixed copper ports only)

Quality of Service

- Policy based QoS features
- · Highly configurable traffic classification
- Buffered multiple packet remarking options at egress on all ports, and on each of 8 egress queues per port
- Two-rate three-color (green, yellow, red) bandwidth metering, with burst sizes for improved TCP-IP bandwidth limiting performance and bandwidth resolution down to 1 Kbps
- Low switching latency essential for Voice over IP (VoIP) and real-time streaming media applications

Resiliency

- STP, RSTP, MSTP (802.1s)
- Port trunking (802.3ad LACP)
- VRRP
- EPSR

Management

- Out of band 10/100/1000 Ethernet management port and asynchronous management port, both on the front panel for ease of access
- An SD memory card socket on the front panel, allowing software release files, configurations and other files to be stored for backup and distribution to other switches
- Port mirroring
- SSH and SNMPv3 for secure management
- 802.1x support
- RMON (4 groups)
- TACACS+, RADIUS
- When Jumbo frame support is enabled, the MRU is 9714 bytes for ports operating at 10/100Mbps, and 10,240 bytes (10KB) at 1Gbps (but maximum supported Layer 3 frame size is 9KB).

Allied Telesis

Gigabit Ethernet port density in a compact IRU chassis. Their high degree of flexibility future-proofs your investment against changes in network infrastructure, topologies, and physical link requirements.

Reliability

Dual hot-swappable AC or -48V DC loadsharing power supplies packaged in the IRU rack mount chassis, provide the ultimate in space saving, reliability and resiliency. These features, combined with front-to-back cooling, make the x900-24X series perfect for the high-density rack environment where space is at a premium.

Policy-Based Quality of Service

Comprehensive, low latency Quality of Service (QoS) features operating at wire-speed provide flow-based traffic management with full classification, prioritization, traffic shaping and min/max bandwidth profiles. The x900-24X QoS features are ideal for service providers wanting to ensure maximum availability of premium voice, video and data services, and at the same time manage customer service level agreements. For enterprise customers, the x900-24X QoS features protect productivity by guaranteeing performance of business-critical applications (including VoIP services), and help to restore and maintain responsiveness of enterprise applications in the workplace.

Performance

The x900-24X is a powerful Layer 3+ switch with a 150Gbps switching fabric, achieving wirespeed switching and routing performance with a forwarding rate of 71.4Mpps. It can support up to two wire-speed 10GbE ports for high performance, high capacity network applications.

Performance

Switching Fabric 150Gbps
Forwarding Rate 71.4Mpps³
Up to 256K IPv4 routes
Up to 16K MAC addresses
Up to 4K layer 2 multicast groups
Up to 1K layer 3 IPv4 multicast groups
4K VLANs
512MB SDRAM
Separate packet buffer memory
32MB Flash Memory

Reliability

MTBF x900-24X with I PSU and I fan module: 93,700 hours x900-24X with 2 PSUs: 249,400 hours (calculated using Telcordia SR-332 (Issue I, May 2001) at 25°C ambient operating temperature)

Power Characteristics

AC.

Voltage: 100 to 240V (+/-10% auto ranging) Frequency: 47 to 63Hz

DC

Voltage: 40 to 60V

Power Consumption

x900-24X with I PSU and I fan module: I I 0 Watts / 375 BTU x900-24X with 2 PSUs and 2 XEM-IXP modules: I 9 I Watts / 652 BTU

Environmental Specifications

Operating Temperature Range: 0°C to 40°C (32°F to 104°F) Derated by 1°C per 305 Meters (1000ft)

Storage Temperature Range: -25°C to 70°C (-13°F to 158°F)

Operating Relative Humidity Range: 5% to 80% non-condensing

Storage Relative Humidity Range: 5% to 95% non-condensing

Altitude:

3,050 Meters maximum (10,000ft)

Physical Dimensions

Height: 44.5mm (1.75") Width: 440mm (16.7") Depth: 440mm (16.7")

Mounting: 19" rack mountable, IRU form-factor

Weights

 $\times 900\text{-}24 X$ with 1 PSU and 1 fan module: 7.3kg (16.1lbs), and 8.8kg (19.4lbs) packaged

x900-24X with 2 PSUs and 2 XEM-1XP modules: 9.3kg (20.5lbs), and 10.8kg (23.8lbs) packaged

AT-PWR01 (AC or DC): 1.0kg, and packaged 1.8kg (3.9lbs) (AC) or 1.5kg (3.3lbs) (DC)

AT-FAN01: 0.6kg (1.3lbs), and 1.4kg (3.1lbs) packaged

Electrical Approvals and Compliances

EMC: EN55022 class A, FCC class A, VCCI class A Immunity: EN55024, EN61000-3-levels 2 (Harmonics), and 3 (Flicker) – AC models only XEM-1XP and XEM-12S.

Safety

Standards: UL60950-1, CAN/CSA-C22.2 No. 60950-1-03, EN60950-1, EN60825-1, AS/NZS 60950.1

Certification: UL, cUL, TUV

Restrictions on Hazardous Substances (RoHS) Compliance

EU RoHS Compliant

Country of Origin

Singapore

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 $^{^{3}}$ With two 12 x 1GbE expansion modules (SFP or RJ45) installed.

⁴ This depth measurement excludes the PSU handles.

Standards and Protocols

AlliedWare® Operating System Software Release Version 3.2.1

Authentication

IEEE 802.1x Port Based Network Access Control RFC 1510 Network Authentication Service (Kerberos V5) RFC 2082 RIP-2 MD5 Authentication

RFC 1771 Border Gateway Protocol 4

RFC 1966 BGP Route Reflection - An Alternative to Full

RFC 1997 BGP Communities Attribute

RFC 1998 Multi-home Routing

RFC 2385 Protection of BGP Sessions via the TCP MD5 Signature Option

RFC 2439 BGP Route Flap Damping

RFC 2858 Multiprotocol Extensions for BGP-4

RFC 2918 Route Refresh Capability for BGP-4

RFC 3065 Autonomous System Confederations for BGP

RFC 3392 Capabilities Advertisement with BGP-4

Discovery ProtocolsCDP over WAN Forward Cisco Discovery Protocol packets over a WAN connection

Encryption

Diffie-HellmanA key-exchange algorithm

FIPS 180 Secure Hash Signature Standard. This Standard specifies four secure hash algorithms - SHA-1, SHA-256,

SHA-384, and SHA-512

FIPS 186 Digital Signature Standard. (RSA)

FIPS 46-3 Data Encryption Standard (DES & 3DES)

RFC 1321 The MD5 Message-Digest Algorithm

RFC 2104 HMAC - Keyed-Hashing for Message Authentication

Ethernet

GARP Generic Attribute Registration Protocol

GVRP Generic VLAN Registration Protocol

IEEE 802.2 Logical Link Control

IEEE 802.3 Ethernet CSMA/CD

IEEE 802.3ab 1000BASE-T

IEEE 802.3ad Link Aggregation Control Protocol (LACP)

IEEE 802.3ad Link Aggregation (Port Trunking)

IEEE 802.3ae 10 Gigabit Ethernet

IEEE 802.3u 100BASE-T

IEEE 802.3x Flow Control - Full Duplex Operation

IEEE 802.3z Gigabit Ethernet

General Routing

ECMP Equal Cost Multi Path routing

RFC 768 User Datagram Protocol (UDP)

RFC 791 Internet Protocol (IP)

RFC 792 Internet Control Message Protocol (ICMP)

RFC 793 Transmission Control Protocol (TCP)

RFC 826 Address Resolution Protocol (ARP)

RFC 894 Standard for the transmission of IP datagrams over Ethernet networks

RFC 903 Reverse ARP

RFC 919 Broadcasting Internet Datagrams

RFC 922 Broadcasting Internet datagrams in the presence of subnets

RFC 925 Multi-LAN ARP

RFC 950 Internet Standard Subnetting Procedure

RFC 1027 Proxy ARP

RFC 1035 DNS Client

RFC 1042 Standard for the transmission of IP datagrams

over IEEE 802 networks

RFC 1071 Computing the Internet checksum

RFC 1122 Internet Host Requirements

RFC 1191 Path MTU discovery

RFC 1256 ICMP Router Discovery Messages

RFC 1288 Finger

RFC 1518 An Architecture for IP Address Allocation with CIDR

RFC 1519 Classless Inter-Domain Routing CIDR

RFC 1541 DHCPv4 Client & Server

RFC 1542 BootP

RFC 1700 Assigned Numbers

RFC 1812 Requirements for IP Version 4 Routers

RFC 1918 IP Addressing

RFC 2131 DHCP

RFC 2132 DHCP Options and BOOTP Vendor Extensions.

RFC 2390 Inverse Address Resolution Protocol

RFC 2581 TCP Congestion Control

RFC 2822 Internet Message Format

RFC 3046 DHCP Relay Agent Information Option

RFC 3232 Assigned Numbers

RFC 3993 Subscriber-ID Suboption for DHCP Relay Agent Option

IPv6 Features

draft-arkko-manual-icmpv6-sas-01 Manual SA Configuration for IPv6 Link Local Messages

draft-ietf-ngtrans-hometun-01 IPv6 over IPv4 tunnels for home to Internet access

draft-ietf-ngtrans-introduction-to-ipv6-transition-06 Overview to the introduction of IPv6 in the internet

RFC 1886 DNS Extensions to support IP version 6

RFC 1981 Path MTU Discovery for IPv6

RFC 2365 Administratively Scoped IP Multicast

RFC 2375 IPv6 Multicast Address Assignments

RFC 2460 IPv6 specification

RFC 2461 Neighbour Discovery for IPv6

RFC 2462 IPv6 Stateless Address Autoconfiguration

RFC 2463 ICMPv6

RFC 2464 Transmission of IPv6 Packets over Ethernet Networks

RFC 2472 IPv6 over PPP

RFC 2526 Reserved IPv6 Subnet Anycast Addresses

RFC 2529 Transmission of IPv6 over IPv4 Domains without **Explicit Tunnels**

RFC 2711 IPv6 Router Alert Option

RFC 2851 Textual Conventions for Internet Network Addresses

RFC 2893 Transition Mechanisms for IPv6 Hosts and

RFC 3056 Connection of IPv6 Domains via IPv4 Clouds

RFC 3307 Allocation Guidelines for IPv6 Multicast Addresses

RFC 3315 DHCPv6

RFC 3484 Default Address Selection for IPv6

RFC 3513 IPv6 Addressing Architecture

RFC 3587 IPv6 Global Unicast Address Format

RFC 3596 DNS Extensions to support IPv6

Management

RFC 1155 Structure and Identification of Management

Information for TCP/IP-based Internets

RFC 1157 A Simple Network Management Protocol (SNMP)

RFC 1212 Concise MIB definitions

RFC 1213 Management Information Base for Network

Management of TCP/IP-based internets: MIB-II

RFC 1215 Convention for defining traps for use with the SNMP

RFC 1239 Standard MIB

RFC 1493 Bridge MIB

RFC 1623 Ethernet MIB

RFC 1657 Definitions of Managed Objects for BGP-4 using SMIv2

RFC 2011 SNMPv2 MIB for IP using SMIv2

RFC 2012 SNMPv2 MIB for TCP using SMIv2

RFC 2096 IP Forwarding Table MIB

RFC 2576 Coexistence between VI, V2, and V3 of the Internet-standard Network Management Framework

RFC 2578 Structure of Management Information Version 2

RFC 2579 Textual Conventions for SMIv2

RFC 2580 Conformance Statements for SMIv2

RFC 2665 Definitions of Managed Objects for the Ethernet-

like Interface Types

RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering and Virtual LAN Extensions

RFC 2790 Host MIB

RFC 2819 RMON MIB

RFC 2856 Textual Conventions for Additional High Capacity

Data Types RFC 2863 The Interfaces Group MIB

RFC 3164 Syslog Protocol

RFC 3289 Management Information Base for the

Differentiated Services Architecture

RFC 3410 Introduction and Applicability Statements for

Internet-Standard Management Framework

RFC 3411 An Architecture for Describing SNMP Management Frameworks

RFC 3412 Message Processing and Dispatching for the SNMP

RFC 3413 SNMP Applications

RFC 3414 User-based Security Model (USM) for SNMPv3

RFC 3415 View-based Access Control Model (VACM) for SNMP

RFC 3416 Version 2 of the Protocol Operations for SNMP

RFC 3417 Transport Mappings for the SNMP

RFC 3418 MIB for SNMP

RFC 3635 Definitions of Managed Objects for the Ethernet-

like Interface Types RFC 3636 Definitions of Managed Objects for IEEE 802.3

Medium Attachments Units (MAUs)

IEEE 802.1AB LLDP

RFC 4188 Definitions of Managed Objects for Bridges RFC 4273 Definitions of Managed Objects for BGP-4 draft-ietf-bridge-802.1x-00.txtlEEE 802.1x Port Access

Multicast Support

RFC 1075 DVMRP

Control MIB

RFC 1112 Host extensions for IP multicasting

RFC 2236 Internet Group Management Protocol (IGMP),

Version 2 RFC 2363 Protocol Independent Multicast Sparse-Mode (PIM-

RFC 2710 Multicast Listener Discovery (MLDv2) for IPv6

RFC 2715 Interoperability Rules for Multicast Routing Protocols

RFC 2973 PIM-DM

RFC 3810 Multicast Listener Discovery Version 2 (MLDv2)

for IPv6 draft-ietf-idmr-dvmrp-v3-10 DVMRPv3

draft-ietf-magma-snoop-02 IGMP and MLD snooping switches draft-ietf-pim-sm-v2-new-12.txt Protocol Independent Multicast - Sparse Mode (PIM-SM): Protocol Specification

draft-vida-mld-v2 Multicast Listener Discovery (MLDv2) for IPv6

IGMP Proxy draft-ietf-magma-igmp-proxy-05 IGMP Snooping Internet Group Management Protocol Snooping

RFC 1245 OSPF protocol analysis

RFC 1246 Experience with the OSPF protocol

RFC 2328 OSPFv2 RFC 3101 The OSPF Not-So-Stubby Area (NSSA) Option

PKI Support

RFC 1779 X.500 String Representation of Distinguished

RFC 2510 PKI X.509 Certificate Management Protocols

RFC 2511 X.509 Certificate Request Message Format

RFC 2527 Internet X.509 Public Key Infrastructure Certificate Policy and Certification Practices Framework

RFC 2559 PKI X.509 LDAPv2

RFC 2585 PKI X.509 Operational Protocols

RFC 2587 PKI X.509 LDAPv2 Schema

RFC 3279 Algorithms and Identifiers for the Internet X.509

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Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile.

RFC 3280 Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile. Draft-IETF-PKIX-CMP-Transport-Protocols-01Transport

Protocols for CMP

PKCS #10 Certification Request Syntax Standard

Quality of Service

RFC 2205 Reservation Protocol (RSVP)

RFC 2211 Specification of the Controlled-Load Network Element Service

RFC 2474 Definition of the Diffentiated Services Field (DS Field) in the IPv4 and IPv6 Headers

RFC 2475 An Architecture for Differentiated Services

RFC 2597 Assured Forwarding PHB Group

RFC 2697 A Single Rate Three Color Marker

RFC 2698 A Two Rate Three Color Marker

RFC 3246 An Expedited Forwarding PHB (Per-Hop Behavior) Combined strict priority & WRR queuingCombined strict priority queuing and weighted round robin queuing Diffsery Differentiated Services

IEEE 802.1p Priority Tagging

Redundancy

EPSR Ethernet Protection Switched Rings

RFC 3768 VRRP

IEEE 802.1D STP - Spanning Tree Protocol (MAC Bridges)

IEEE 802.1s MSTP - Multiple overlapping spanning trees

IEEE 802.1t - 2001802.1D maintenance

IEEE 802.1w - 2001 RSTP

Routing Protocols

RFC 1058 Routing Information Protocol (RIP)

RFC 2080 RIPng for IPv6

RFC 2081 RIPng Protocol Applicability Statement

RFC 2453 RIP Version 2

Security Features

RFC 1492 TACACS

RFC 1858 Fragmentation

RFC 2246 The TLS Protocol Version 1.0

RFC 2865 RADIUS

RFC 2866 RADIUS Accounting

RFC 2868 RADIUS Attributes for Tunnel Protocol Support

RFC 4251 The Secure Shell (SSH) Protocol Architecture

SSHv1.5 Secure Shell server v1.5

SSLv2 http://wp.netscape.com/eng/security/ssl_2.html

SSLv3 http://wp.netscape.com/eng/ssl3/draft302.txt

draft-freier-ssl-version3-02.txt SSLv3

draft-grant-tacacs-02.txt TACACS+

draft-ylonen-ssh-protocol-00.txt SSH Remote Login Protocol

Services

RFC 854 Telnet Protocol Specification

RFC 855 Telnet Option Specifications

RFC 857 Telnet Echo Option

RFC 858 Telnet Suppress Go Ahead Option

RFC 932 Subnetwork addressing scheme

RFC 1091 Telnet terminal-type option

RFC 1305 Network Time Protocol (NTPv3)

RFC 1350 Trivial File Transfer Protocol (TFTP)

RFC 1413 IDP

RFC 1945 HTTP/1.0

RFC 1985 SMTP Service Extension

RFC 2049 MIME

RFC 2068 HTTP/I.I

RFC 2217 Telnet Com Port Control Option

RFC 2616 Hypertext Transfer Protocol - HTTP/I.I

RFC 2822 Internet Message Format SCP Secure Copy

VLAN Support

IEEE 802.1ad VLAN double tagging

IEEE 802.1Q Virtual LANS

IEEE 802.1v VLAN classification by protocol & port

IEEE 802.3ac VLAN tagging

Ordering Information AT-x900-24XT

Advanced Gigabit Layer 3+ Expandable Switch 2 x 30 Gigabit Expansion Bays + 24 x 10/100/1000BASE-T (RJ-45) ports

I PSU and fan only module

AT-x900-24XT-xx

Order number: 990-000996-xx

2 PSUs

AT-x900-24XT-DP-zz

Order number: 990-001145-zz

AT-x900-24XS

Advanced Gigabit Layer 3+ Expandable Switch 2 x 30 Gigabit Expansion bays + 24 x 1000BASE-X SFP ports

I PSU and fan only module

AT-x900-24XS-xx

Order number: 990-001000-xx

2 PSUs

AT-x900-24XS-DP-zz

Order number: 990-001146-zz

00 for all power cords Where xx =

20 for no power cord

80 for 48V DC power supply

10 for U.S. power cord Where zz =

20 for no power cord

30 for U.K. power cord

40 for Asia/Pacific power cord

50 for European power cord

80 for 48V DC power supply

Expansion Modules

AT-XEM-IXP

I x IOGbE (XFP)

Order number: 990-000997-00 AT-XEM-12S NEBS compliant 12 x 1000BASE-X SFP ports

Order number: 990-000998-00

AT-XEM-12T

12 x 10/100/1000BASE-T (RJ-45) ports

Order number: 990-000999-00

SFP Modules⁵

AT-SPFX/2

100BASE-FX 1310nm fiber up to 2km

AT-SPFX/15

100BASE-FX 1310nm fiber up to 15km

AT-SPFX/40

100BASE-FX 1310nm fiber up to 40km

AT-SPTX

10/100/1000 BASE-T 100m Copper

AT-SPSX

1000BASE-SX

GbE multi-mode 850nm fiber

AT-SPLX 10

1000BASE-LX

GbE single-mode 1310nm fiber up to 10km

AT-SPLX40

1000BASE-LX

GbE single-mode 1310nm fiber up to 40km

AT-SPLX40/1550

1000BASE-LX

GbE single-mode 1550nm fiber up to 40km

AT-SPZX80 1000BASE-ZX

GbE single-mode 1550nm fiber up to 80km

⁵ Please check with your sales representative for ROHS compliance on SFP modules.

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10GbE XFP Modules For use with XEM-IXP

AT-XPSR IOGBASE-SR

850nm Short-haul, 300m with MMF

AT-XPLR 10GBASF-I R

1310nm Medium-haul, 10km with SMF

AT-XPER40 IOGBASE-ER

1550nm Long-haul, 40km with SMF

Power supply and fan module

AT-PV/ROI Hot-swappable load-sharing power supply Order number: 990-001084-zz

Where zz = 10 for U.S. power cord

20 for no power cord 30 for U.K. power cord 40 for Asia/Pacific power cord 50 for European power cord 80 for 48v DC power supply

AT-FANOI Fan only module Order number: 990-001085-00

Feature licenses

AT-9900FL3UPGRD

x900-24 Full Layer 3 upgrade:

- K2AL
- DVMRP
- VRRPPIM SM
- PIM DM

Order number: 980-00001-00

AT-9900ADVL3UPGRD

x900-24 Advanced Layer 3 upgrade:

IPv6BGP-4

Order number: 980-000009-00

AT-AR-VLANDTAG

VLAN double tagging upgrade Order number: 980-10041-00

AT-AR-3DES 3DES upgrade

Order number: 980-10000-yyy

Where yyy = 00 for I temporary license

Ol for I license
O5 for 5 licenses
10 for 10 licenses
25 for 25 licenses
50 for 50 licenses
100 for 100 licenses
250 for 250 licenses

About Allied Telesis

Allied Telesis is part of the Allied Telesis Group. Founded in 1987, the company is a global provider of secure Ethernet/IP access solutions and an industry leader in the deployment of IP Triple Play networks over copper and fiber access infrastructure. Our POTS-to-10G iMAP integrated Multiservice Access Platform and iMG intelligent Multiservice Gateways, in conjunction with advanced switching, routing and WDM-based transport solutions, enable public and private network operators and service providers of all sizes to deploy scalable, carrier-grade networks for the cost-effective delivery of packet-based voice, video and data services.

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Service and Support

Allied Telesis provides value-added support services for its customers under its Net.Cover programs. For more information on Net.Cover support programs available in your area, contact your Allied Telesis sales representative or visit our website.

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