Allied Telesis

iMAP 9700
integrated Multiservice Access Platform

As the service provider network is evolving to all IP/Ethernet, the iMAP is leading the field with the world's first true carrier-grade IP access platform. Its unique carrier-class IP/Ethernet capabilities are suitable for any service provider building an IP access network for current and future services. Founded on the premise that IP/Ethernet solutions are the basis of any viable next-generation network, Allied Telesis provides industry leading capabilities that position the iMAP as the future of access for IOCs, ILECs, IXC, PTTs, ISPs, PUDs, education, Federal and highly reliable military solutions. Leveraging the cost benefits of Ethernet, the Allied Telesis iMAP is the definitive IP access platform that addresses the migration to carrier-grade Ethernet. The iMAP is equivalent to an IP DSLAM, IP BLC, IP transport and IP FTTH in one integrated platform that provides services from POTS to 10Gbps Ethernet.

The iMAP 9700 flagship provides the scalability to 10Gbps with industry-leading densities unmatched by the competition. For next-generation access networks, the ability to offer POTS, xDSL, FTTx and Ethernet in a single integrated platform will define the migration to an IP/MPLS data core. Future VoIP services will seamlessly be supported with the access infrastructure available from Allied Telesis today.

Any Service, Any Access, One Platform
iMAP access solutions support 10Mb, 100Mb and Gigabit Ethernet services as well as POTS, xDSL, GEPON and T1/E1 private circuits.

Video Optimization
By leveraging bandwidth-efficient IP multicast and IGMP, and with advanced features including IP filtering, DHCP relay and Layer 4 IP flow metering, all iMAP solutions are optimized for video services delivery where QoS capability and security is critical.

Modular Scalability
iMAP access solutions ensure network scalability in an operationally-efficient manner. Low to medium density applications can take advantage of the iMAP 9700 systems without sacrificing features or subscriber-interface options. High-density applications can use the iMAP 9400/9700 platforms. Other advantages include utilizing common control and network transport modules across both 9400 and 9700 iMAP systems.

Network Resiliency
iMAP access solutions are built around a fault-tolerant switch core designed to operate with 99.999% network availability. Combined with Allied Telesis' Ethernet Protection Switched Rings (EPSR) transport technology, iMAP is designed to be a fundamental building block of any carrier-grade IP access or transport network.

Service Differentiation
QoS schemes for iMAP access solutions are designed to ensure that application performance and availability are not impacted with network growth. Features such as IPDiffServ and 802.1p/q enable tiered data services for both residential and business/enterprise users.

Manageability
iMAP access solutions are designed to be managed and provisioned remotely using Allied Telesis' AlliedView™ Network Management Software (NMS), a comprehensive network management platform designed to increase network uptime and throughput while reducing operating expense.

iMAP 9700 Chassis Configuration
Modular 9RU system
- 2 control module slot
- 2 network transport slots
- 17 (16 in CFC duplex mode) line card slots

iMAP 9700 service and access options:
- Up to 170 Active Ethernet FTTx
- Up to 170 10/100TX Ethernet ports
- Up to 136 GbE circuits
- Up to 408 POTS
- Up to 408 ADSL2+
- Up to 192 POTS with 72 ADSL2+ combo
- Up to 136 T1/E1 circuit emulation service
- Up to 408 G.SHDSL
- Up to 1088 GEPON (32:1 split)
- Up to 408 VDSL2

iMAP 9700 Key Features
- Carrier-class IP/Ethernet access
- Video-optimized for IP Triple Play services
- Environmentally-hardened
- Common iMAP line cards
- Line card hot swapping
- Simultaneous fiber and copper access
- Full front access
- Redundant common control and network transport interfaces
- ETSI and ANSI compliant
- Fault tolerant design with no single point of failure

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Specifications:

Physical Characteristics

Dimensions:	44cm x 30cm x 40cm
	17.4" x 11.9" x 15.75"
	(W x D x H)
Weight:	31 lbs
Rack Unit:	9 Rack Unit
Access:	Full Frontal Access

Power Characteristics

Dual -48v DC, -36v DC to -57.7v DC
AC power kits available

Environmental Specifications

Operating Temp:	-40C to 65C
Storage Temp:	-40C to 85C
Relative Humidity:	5% to 95%, non-condensing

Regulatory Approvals

FCC Part 15 Class A/ANSI C63.4
EN 300 386 V1.3.1:2001-09/EN 55022:1998, Class A
VCCI Class A; ITE/ CISPR 22:1997 Class A
EN 300 386 V1.3.1:2001-09/EN 55022:1998, Class A
EN 300 386 V1.3.1:2001-09/EN 61000-4-3:1998
EN 300 386 V1.3.1:2001-09/EN 6100-4-6:1996
EN 300 386 V1.3.1:2001-09/EN 61000-4-4:1995
EN 300 386 V1.3.1:2001-09/EN 61000-4-5:1995
EN 300 386 V1.3.1:2001-09/EN 61000-4-2:1999
UL/cUL 60950: IEC60950
NEBS Level 3, GR-1089 Issue 3, GR63 Issue 2
USDA RUS

Standards and Compliance

IEEE 802.1d,w Rapid Spanning Tree
IEEE 802.1q MEV (Double Tagging)
IEEE 802.1p Traffic Class Expediting
IEEE 802.3ad Link Aggregation
IEEE 802.3ah Ethernet First Mile (EFM)
IETF RFC 1112 IP Multicasting/IGMP Snooping v1
IETF RFC 2236 IP Multicasting/IGMP Snooping v2
IETF RFC 3619 EAPS w/ATI Extensions for EPSR
IETF RFC 2131 DHCP
IETF RFC 1350 TFTP

Allied Telesis' iMAP family of integrated
Multiservice Access Platforms

iMAP 9700 Ordering Information

iMAP Chassis

Model	Description	Part #
iMAP 9700	17-slot chassis with DC power without filler plates	AT-TN-250G

iMAP Common Control

Model	Description	Part #
CFC24	24GbE switch controller card	AT-TN-401
GE3	3x GbE WAN interface card	AT-TN-301
CFC56	56 GbE switch controller card	AT-TN-407
XE1	10 GbE WAN interface card	AT-TN-308

iMAP Line Cards

Model	Description	Part #
ADSL24A	24-port ADSL line card (Annex A)	AT-TN-121
ADSL24B	24-port ADSL line card (Annex B)	AT-TN-124
CES8	8-port CES8 T1 line card	AT-TN-119
FE10	10-port 10/100TX line card	AT-TN-102
FTTX (MM)	10-port 100Mbps multimode fiber line card	AT-TN-104
FTTX (SM, Dual Fiber)	10-port 100Mbps singlemode fiber line card	AT-TN-107
FTTX (SM, Single Fiber)	10-port 100Mbps singlemode, single fiber line card	AT-TN-109
GE8	8-port GbE line card	AT-TN-117
GEPON2	2-port GEPON line card	AT-TN-118
NTE8	8-port NxT1 MLPPP line card	AT-TN-125
PAC24	24-port POTS ADSL combo line card (Annex A)	AT-TN-123
POTS24	24-port POTS line card	AT-TN-113
SHDSL24	24-port SHDSL line card	AT-TN-127
VDSL24A	24-port VDSL2 line card (Annex A)	AT-TN-130
VDSL24B	24-port VDSL2 line card (Annex B)	AT-TN-128
ADSL48A	48-port ADSL2+ Annex A line card	AT-TN-131
ADSL48B	48-port ADSL2+ Annex B line card	AT-TN-132
Filler	Full size service slot filler plate	AT-TN-M000

iMAP Power Options

Model	Description	Part #
AC Starter	iMAP 9700 AC starter kit	AT-TN-R113-xx*
AC Adder	iMAP 9700 AC adder kit	AT-TN-R114-xx

*Where XX	
	= 10 for U.S. power cord
	= 20 for no power cord
	= 30 for U.K. power cord
	= 40 for Australia power cord
	= 50 for Europe power cord

Connecting The (IP) World

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