

## iMAP 9400

### integrated Multiservice Access Platform



The iMAP 9400 is an IP/Ethernet-based access platform featuring advanced ADSL and fiber technologies to support voice, video and data services. The 9400 can deliver any service from any of its seven subscriber slots. With simultaneous support for ADSL2+, VDSL2, SHDSL, POTS, T1/E1, Ethernet and FTtx, the iMAP 9400 is ideal for mid-size network deployments. Fully managed with optional transport redundancy, the iMAP 9400 utilizes cost-effective Gigabit Ethernet network interfaces. Using the same subscriber and common control modules as the other iMAP modular systems, the 9400 can be networked with other members of the iMAP family to easily scale to any network size.

#### Any Service, Any Access, One Platform

iMAP access solutions support 10Mb, 100Mb and Gigabit Ethernet services as well as POTS, xDSL, GEAPON 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 9400 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 9400 Chassis Configuration Modular 3RU system

- 1 control module slot
- 2 network transport slots
- 7 line card slots

#### iMAP 9400 service and access options:

- Up to 70 Active Ethernet FTtx
- Up to 70 10/100TX Ethernet ports
- Up to 56 GbE circuits
- Up to 168 POTS
- Up to 168 ADSL2+
- Up to 72 POTS with 72 ADSL2+ combo
- Up to 56 T1/E1 circuit emulation service
- Up to 168 G.SHDSL
- Up to 448 GEAPON (32:1 split)
- Up to 168 VDSL2

#### iMAP 9400 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 Network Transport interfaces
- ETSI and ANSI compliant

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## Specifications:

### Physical Characteristics

Dimensions: 44cm x 30cm x 13cm  
17.4" x 11.9" x 5.25"  
(W x D x H)

Weight: 15 lbs

Rack Unit: 3 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 61000-4-6:1996  
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 9400 Ordering Information

### iMAP Chassis

Model	Description	Part #
iMAP 9400	7-slot chassis with DC power without filler plates	AT-TN-251G

### iMAP Common Control

Model	Description	Part #
CFC24	24GbE switch controller card	AT-TN-401
GE3	3x GbE WAN interface card	AT-TN-301
CFC56	56GbE switch controller card	AT-TN-407
XE1	10GbE 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
GEB8	8-port GbE line card	AT-TN-117
GEPON2	2-port GEAPON 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+ line card (Annex A)	AT-TN-131
ADSL48B	48-port ADSL2+ line card (Annex B)	AT-TN-132
Filler	Full size service slot filler plate	AT-TN-M000

### iMAP Power Options

Model	Description	Part #
AC Starter	iMAP 9400 AC starter kit	AT-TN-R111-xx*
AC Adder	iMAP 9400 AC adder kit	AT-TN-R112-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

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