iMAP Express 7112

integrated Multiservice Access Platform

The iMAP Express 7112 is a member of Allied Telesyn's iMAP family of IP-based integrated multiservice access platforms. The 7112 is 1RU and is optimal for delivery IP based services including IP Video and high speed Internet. Leveraging the same core technology as the modular iMAP 9000 series of products, the 7112 is best suited for small density, cost-effective delivery of ADSL2+ services

Small enough for remote cabinet or CO deployments, the 7112 also offers optional AC power kits that enable Service Providers or Enterprise customer's deployment flexibility - CO, RT, MDU/MTU, Hospitality and Enterprise.

Dense ADSL2+ Delivery

The 7112 supports 48 ports of ADSL2+ (Annex A) from a single RU. Utilizing Allied Telesyn's ADSL2+ optimized amphenol connectors, the 7112 ensures maximum Rate vs. Reach performance.

Networking Capabilities

With support for Allied Telesyn's Ethernet Protection Switched Ring and RSTP, the 7112 offers numerous flexible network deployment options – Rings, point-to-point, hub and spoke, and mesh. Whether using SFP based GbE or Fast Ethernet, the 7112 enables seamless integration into any Service Provider or Enterprise network.

Pay as you grow Scalability

Stacking capabilities ensures pay as you grow Access with common network transport per location. Using either Fast Ethernet or GbE, the 7112 units can be stacked together in either daisy chain or ring fashion. Aggregate network traffic can be transported from single or multiple Fast Ethernet or GbE uplinks thereby minimizing network transport costs.

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

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

iMAP Express 7112 System Configuration

1RU system (Fixed Configuration)

- 1 control module slot
- 48 ADSL2+ ports

iMAP Express 7112 Key Features

- Carrier-class IP/Ethernet access
- Video-optimized for IP Triple Play services
- IGMPv2 with Fast Joins/Leaves
- Environmentally-hardened
- Dual DC Power Feeds
- Optional AC Power kit
- Industry standard ADSL2+
- Network compatible with iMAP 9000 family of products
- ETSI and ANSI compliant
- Managed via AlliedView NMS
- Stacking for managed scaling

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Specifications

Uplinks
2 100BT Ethernet
2 Gigabit Ethernet (SFP)

Physical Characteristics
Dimensions: 44cm x 30cm x 4.45cm
17.4" x 11.9" x 1.75" (W x D x H)
Weight: 8.8lbs
Rack Unit: Single Rack Unit
Access: Full Frontal Access

Power Characteristics
Dual -48v DC, -36v DC to -57.7v DC
100-220V AC and 50-60Hz (using Optional AC Power kit)
Max Power: 154W

ADSL Standards
ITU-T G.992.1 (ADSL, S = 1/2, G.DMT, T1.413)
ITU-T G.992.5 (ADSL2+)
Annex A (ONLY)

ADSL Port Specifications

Interface Type:	RJ21 (Qty 2)
Number of VCs per port:	4
Number of priority queues per VC:	8
Dropped packet counter:	Yes
Full traffic classifier support:	Yes
Full traffic classifier action support:	Yes
ARP Filtering:	Yes
Ingress Metering:	Yes (1Mbps increment)
Peak Cell Rate Limiting per VC:	Yes
Ingress Max Burst Size:	64kbps
Egress Max Burst Size:	64kbps

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
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

Ordering Information

iMAP Express 7112

Model	Description	Part #
iMAP Express 7112	Fixed 1RU Configuration, 48 ADSL2+ ports	AT-TN-7112-A

iMAP Express Accessories

Model	Description	Part #
Optimized Splitter Chassis	3RU, 4 slot POTS Splitter Chassis	AT-TN-S004-A
Optimized Splitter Card	24-port Splitter card	AT-TN-S101-A
CPE Attenuator	ADSL2+ Attenuator	AT-TN-S900-A
SFP – 13dB	1310nm SM SFP, 13dB Optical Budget	AT-TN-P000-A
SFP – MM	850nm MM SFP, 12db Optical Budget	AT-TN-P001-A
SFP – 24dB	1550nm, SM SFP, 24dB Optical Budget	AT-TN-P002-A
SFP – 18dB	1310nm, SM SFP, 18dB Optical Budget	AT-TN-P003-A
Optimized Splitter Cable	ADSL24 to High Performance Splitter Cable	AT-TN-C013-A-XX**
Standard Splitter Cable	ADSL24 to Standard Splitter Cable	AT-TN-C018-A-XX**

**Where XX
= 005 for 5 ft
= 010 for 10 ft
= 015 for 15 ft
= 020 for 20 ft
= 030 for 30 ft
= 040 for 40 ft
= 050 for 50 ft
= 060 for 60 ft
= 070 for 70 ft
= 080 for 80 ft
= 090 for 90 ft

iMAP Power Options

Model	Description	Part #
AC Power Kit	7100 AC power kit	AT-TN-R108-A-YY*

*Where YY
= 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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