MicroMAP™ 9001

integrated Multiservice Access Platform

The Allied Telesis MicroMAP™ 9001 provides an entry level for the Allied Telesis integrated Multiservice Access Platform (iMAP™) to advance the migration to the Gigabit-in-the-Last-Mile network.

Overview

The Allied Telesis MicroMAP™ 9001 is the compact, single slot, entry-level member of the Allied Telesis integrated Multiservice Access Platform. The MicroMAP 9001 is designed to support iMAP "intelligent" line cards such as the iMAP UDSL24, and will also accept other iMAP line cards as they are upgraded to intelligent cards. Using the MicroMAP, a full range of services can be provided—whether at a customer's premise or within small cabinets. The MicroMAP has four 1 / 2.5 Gigabit uplink ports that can support transport of linear or ring architectures. The introduction of 2.5 Gigabit transport capability is an industry first and provides full non-concentrating bandwidth to support the delivery of UDSL-based services. As additional intelligent cards are added to the MicroMAP portfolio, the transport will be upgraded to continue to support non-blocking capability.

Multiple MicroMAP chassis can be networked together at the same location, each with different channel units, to provide a variety of services within business-centric MDUs or in small outside plant cabinets.

The Allied Telesis MicroMAP provides a cost-effective platform where initially small quantities of services are needed or where existing small outside plant cabinets need to be updated. The MicroMAP is designed to be able to grow as the service requirements grow and change. MicroMAP is also ideal in buildings where rewiring may be difficult or where wireless architectures may not be suitable to provide the desired services. The MicroMAP can be economically deployed in wiring closets and utilize the UDSL24 channel unit to provide services over the existing copper plant.

Any Service, Any Access, One Platform

iMAP access solutions support fiber Gigabit Ethernet point-to-point services, GEPON point-to-multipoint service as well as 10Mbps, 100Mbps, and 1 Gigabit Ethernet services in addition to copper-based xDSL data, Voice over IP (VoIP), analog POTS telephony and legacy T1/E1 private circuits.

High Bandwidth

MicroMAP, as are all of the iMAP chassis, is designed to support high bandwidth service delivery. Initially starting with the support of VDSL2 and ADSL2+ bandwidth delivery, the MicroMAP is intended to support the full array of iMAP-based line cards and services. As the requirement for bandwidth to the business and the residence continues to expand, it becomes more imperative that platforms with wirespeed throughput be deployed. The MicroMAP is designed to support this increasing bandwidth with initially having four 1 / 2.5 Gigabit uplinks. Upcoming models of the MicroMAP will support multiple ten Gigabit uplinks to enable additional high-bandwidth services.

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 Quality of Service (QoS) and security are critical.

Modular Scalability

The MicroMAP access solution ensures that the total iMAP solution maintains modular network scalability in an operationally-efficient manner. The MicroMAP is designed for

Key Features

▶ Carrier-class IP/Ethernet access

▶ Video optimized for IP Quad Play services

▶ 1 / 2.5Gbps support (10Gbps future)

▶ Environmentally hardened

▶ Resilient network transport

▶ Common family of iMAP line cards

▶ Lifeline VoIP POTS telephony

▶ ETSI and ANSI compliant

MicroMAP 9100 Chassis Configuration

Single-slot chassis

▶ One fixed control module

▶ One line card slot

▶ Dual power feeds

▶ Forced air cooling

▶ DC-powered chassis, designed to support future AC-powered option

high-bandwidth Fiber-To-The-Node (FTTN) applications that typically require the implementations of many small low line size nodes. With MicroMAP included in the solution, features or subscriber-interface options do not need to be sacrificed. The MicroMAP can simultaneously work in the network with the Allied Telesis iMAP™ 9810/9700 platforms, which can be used for higher-density applications.

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

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Ring (EPSRing™) 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 IP DiffServ and IEEE 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 the Allied Telesis AlliedView™ Network Management System (NMS), a comprehensive network management platform designed to increase network uptime and throughput while reducing operating expense. AlliedView NMS provides a XML/SOAP Web services-based Northbound Interface (NBI) for easy interfacing to other Operational Support Systems (OSS) and Business Support Systems (BSS), further reducing operational expenditure.

Specifications

Physical Characteristics

Dimensions (W×D×H)	4.45 cm × 24.89 cm × 20.10 cm (1.75 in × 9.8 in × 8.7 in)
Weight	2.04 kg (4.5 lb)
Rack unit	Single rack unit
Access	Rear access power/alarms/grounding
	Front access 4 × 1 / 2.5GbE SFP WAN/RING/Subtending ports
	Front access 10/100 Management port
	Front access RS232 Craftsperson port

Power Characteristics

Dual -48VDC, -36VDC to -72VDC
100–200VAC and 50–60Hz (future)
Redundant AC (future)

Environmental

Operating Temperature	-40°C to 65°C (-40°F to 149°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Relative Humidity	5% to 95%, non-condensing

Regulatory Approvals

Safety	IEC60950-1:2005 2nd Edition + A1
	EN60950-1: 2006+A11+A1+A12
	UL60950-1
	Low Voltage Directive 2006/95/EC
EMC	VCCI
	ETSI EN 300 386 V1.3.3
	ETSI EN 300 132-2 V2.2.2
	EN55022:2006
	GR1089-CORE-V6
	FCC 47CFR 15 Part 15
	EN55024
	EN61000-4-2
	EN61000-4-3
	EN61000-4-4
	EN61000-4-5
	EN61000-4-6
	EN61000-4-8
	EN61000-4-11
	EMC Directive 2004/108/EC
ANSI C63.4-2003	

Ordering Information

MicroMAP Chassis
MicroMAP 9001
1-slot iMAP chassis with DC power
Part number: AT-TN-254-80

iMAP Channel Units
UDSL24
24-port VDSL2 / ADSL2+ line card
Part number: AT-TN-146-A

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