

APRESIA

The Right Fit

High-Performance Layer 2 Ethernet Switches

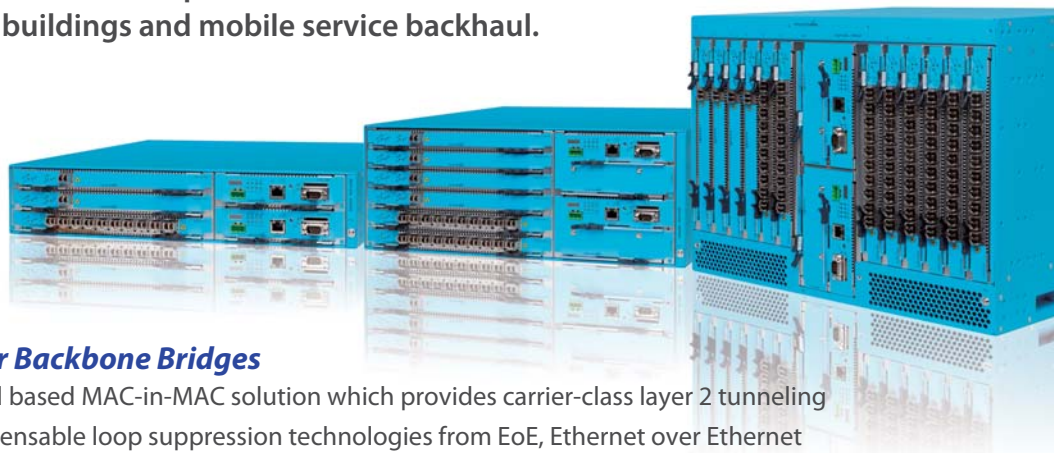
APRESIA® 16000 Series

Summary

Recent rapid globalization has tremendous momentum in various kinds of areas such as manufacturing, banking facilities, retail chain, broadcasting and communication. Global carriers, to meet requirements from those businesses, quickly and efficiently deploy and enhance their network system with genuine scalability, flexibility and manageability.

APRESIA16000 chassis switches fulfill their demands with global standard technologies while inheriting sophisticated loop storm prevention features and extended virtual network architecture to enable universal platform based on native Ethernet.

With its convergence enhancement, APRESIA16000 offers extensive networking coverage, making them ideally suited for Metropolitan Area Networks (MANs), service provider and enterprise data centers, multi-tenant buildings and mobile service backhaul.



Key Features

PBB, Provider Backbone Bridges

- ❑ IEEE standard based MAC-in-MAC solution which provides carrier-class layer 2 tunneling
- ❑ Inherit indispensable loop suppression technologies from EoE, Ethernet over Ethernet
- ❑ Enables flat and flexible VPN, virtual private network domain with I-SID switching
- ❑ Smooth migration and flexible interoperability among 802.1ad Provider Bridge, EoE and PBB

Ethernet OAM, Operation Administration and Maintenance

- ❑ Provides problem isolation and monitoring capability not only for provider's network but also between provider's edge and customer's edge
- ❑ Stable and reliable management by hardware-basis processing

Fadeless Splendor; Legacy Protocols

- ❑ EoE, Ethernet over Ethernet
- ❑ MMRP2, Multi Master Ring Protocol ver.2
- ❑ VDR, VLAN Distributed Redundancy, etc.

Specification

		Apresia16012	Apresia16006	Apresia16003
Interface	# of Slot	12	6	3
	10BASE-T/100BASE-Tx	No	No	No
	1000BASE-X	Max. 120 (SFP)	Max. 60 (SFP)	Max. 30 (SFP)
	10GBASE-R	Max. 12 (SFP+)	Max.6 (SFP+)	Max.3 (SFP+)
Performance	Management Port	10BASE-T/100BASE-Tx	10BASE-T/100BASE-Tx	10BASE-T/100BASE-Tx
	SW Capacity	240Gbps	120Gbps	60Gbps
VLAN	# of MAC Address	256k	256k	256k
	Port Based VLAN	Yes	Yes	Yes
	802.1Q TAG VLAN	Yes	Yes	Yes
	# of VLAN	4094	4094	4094
	Stacked VLAN	Yes	Yes	Yes
	PBB (Provider Backbone Bridges)	Yes	Yes	Yes
Hardware Access-List	EoE (Ethernet over Ethernet)	Yes (Planned)	Yes (Planned)	Yes (Planned)
	Unit	Line Card	Line Card	Line Card
	L1 to L4 Control	Yes	Yes	Yes
	Protocol Type Control	Yes	Yes	Yes
	ToS Field Control	Yes	Yes	Yes
	IPv6 SIP DIP	Yes	Yes	Yes
	# of Queue (Priority Class)	8	8	8
	802.1P	Yes	Yes	Yes
QoS	ToS Priority Control	Yes	Yes	Yes
	Strict Priority Control	Yes	Yes	Yes
	Queue Mapping	Yes (w/ Access-List) *1	Yes (w/ Access-List) *1	Yes (w/ Access-List) *1
	Rate Limiting	Yes (Two Rate) *2	Yes (Two Rate) *2	Yes (Two Rate) *2
Bandwidth Control	Rate Shaping	Yes (Port Basis)	Yes (Port Basis)	Yes (Port Basis)
	Priority Reserved Bandwidth Limiting	Yes (Three Class)	Yes (Three Class)	Yes (Three Class)
	CIR	Yes	Yes	Yes
	Broadcast	Yes	Yes	Yes
Flooding Limit	Multicast	Yes	Yes	Yes
	Unknown Unicast	Yes (w/ Access-List)	Yes (w/ Access-List)	Yes (w/ Access-List)
	Link Aggregation	Yes	Yes	Yes
Layer2 Redundancy	MMRPv2	Yes	Yes	Yes
	VDR	Yes (Planned)	Yes (Planned)	Yes (Planned)
	Flush FDB	Yes	Yes	Yes
	IEEE802.1AB LLDP	Yes	Yes	Yes
	Mirroring	Yes	Yes	Yes
Management	SNMPv1 / v2c	Yes	Yes	Yes
	TRAP/Syslog	Yes	Yes	Yes
	RMON	Yes	Yes	Yes
	Console / Telnet Login	Yes	Yes	Yes
	HTTP Login	No	No	No
	CLI	HCL CLI	HCL CLI	HCL CLI
	SD Card Slot	Yes	Yes	Yes
	Ethernet OAM (CC, LB, LT, DM, & LM)	Yes	Yes	Yes
Others	VXC (VLAN Cross Connect)	Yes	Yes	Yes
	Loop Free	Yes (Planned)	Yes (Planned)	Yes (Planned)
	User VLAN Aware	Yes	Yes	Yes
	Jumbo Frame	Yes	Yes	Yes
	IGMP/MLD Snooping	Yes	Yes	Yes
Hardware	Dimensions (W x D x H mm)	432 x 450 x 350	434 x 450 x 167	434 x 450 x 87
	Weight	60kg *3	32kg *3	20kg *3
	Power	DC -57 to -40V	DC -57 to -40V	DC -57 to -40V
	Consumption Power	≦1200W	≦650W	≦300W
	Redundant PSU	Yes	Yes	Yes

*1. IP Address (SA/DA), Multicast, Customer-VLAN ID, etc. *2. Port Pipe Basis / VLAN Basis / VLAN Group Basis *3. When fully equipped

Ordering Information



Apresia16012



Apresia16006



Apresia16003

Description	Model	Description	Model
Apresia16012 Chassis	Apresia16012	DC Power Supply Unit for Apresia16006	A16U6-DC-PSU
Apresia16006 Chassis	Apresia16006	DC Power Supply Unit for Apresia16003	A16U3-DC-PSU
Apresia16003 Chassis	Apresia16003	10port 1000BASE-X (SFP) Line Card	A16L-G16X10c
Management Module for Apresia16012/16006	A16U-MM1	1port 10GBASE-R (SFP+) Line Card	A16L-XG16X01c
Management Module for Apresia16003	A16U3-MM1	Blank Card for Line Card Slot *1	A16B-L
DC Power Supply Unit for Apresia16012	A16U12-DC-PSU	SD Card (256Mbyte)	HC-ASD-P256*2
FAN Unit for Apresia16012	A16U-FAN0601	Anti-Static Wrist Band	A80-WS1

*1. Blank Card must be required for blank slots *2. ASD is abbreviation for "Apresia SD card".

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