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MDF-6000 Datasheet

MDF-6000 with AC Module

MDF-6000 with POE Module

MDF-6000 is a 6 port EoC GAM (G.hn Access Mutiplexer) which distributes Gigabit Ethernet over legacy coax cabling. It uses ITU-T Technical Specifications G.9960 / G.9961-G.hn 2.0.

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Specifications

Hardware	
System Architecture & Console	2 x Uplink module slots 1G / 10G Optical Transceiver 6 ports Coaxial(F connector) Console RJ45 to RS232C(Baud Rate 115200)
Main Chipset	Marvell PonCAT3 High Performance Switch & Processor with Network Acceleration Hardware G.hn Chipset : 88LX5153/2730, G.hn Digital & AFE Processor
Memory	512MB DDR3 SDRAM, 128MB Flash Memory
Physical Dimension	19" Rack Mount type, 1.0U 280(D) x 440(w) x 44mm(H)
Switching Fabric	88Gbps
Management	Syslog, SNMPv2, RMON, SSH, TFTP, FTP Security by using password for log-in via Console and Telnet NTP, Port mirroring, TCP DUMP
FAN	2EA FAN Module, Max. 6,200rpm
LED	Power, System Active, Management, FAN , Uplink , G.hn Link
Environmental	
Input power & frequency	100-240V AC and 50/60Hz Plugable type Module or 37-57V DC Plugable type PD Module (90W)
Power Consumption(AC)	Max 30W
Power Consumption(PD)	Max 30W
Operating temperature/ humidity	0 °C ~ 40 °C / 0 ~ 90% non-condensing
Storage temperature	-20 °C ~ 70 °C
G.hn Standards & Certifications	
Modulation	OFDM(Orthogonal Frequency Division Multiplexing)
G.hn Framing	ITU-T Standard-based G.hn G.9960/61
Standard/ Certifications	ITU-T G.9960 Support(G.hn PHY) ITU-T G.9961 Support(G.hn MAC) ITU-T G.9962 Support(Management Plane) ITU-T G.9954 Support(Phoneline networking transceivers) ITU-T G.9980 (TR-069 Remote management) IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.1p for CoS (Class of Service)

	IEEE 802.1Q for VLAN Tagging Certifications: Complies with UL, CE, CUL, FCC Part 15 Class B, EMC 89/336/EEC, ICES-003
Network Control & Functions	
Mac Address numbers	16K
VLAN Number	4K VLAN
Layer 2	802.1W STP, RSTP, PVSTP 802.1D Spanning Tree Protocol 802.1Q VLAN(4K) and VLAN Trunking 802.3ad Link Aggregation(MAX 32 Groups & 8members for each group) Jumbo Frame up to 9K (G.hn port : 2K)
Management	Syslog, SNMPv2, RMON, TFTP FTP, NTP, TCP DUMP, Port Mirroring Security by using password for log-in via Console and Telnet
Remote Reset	Remote H/W Reset Dying Gasp Watch dog
Multicast	IGMPv1/V2/V3 IGMP Snooping IGMP Snooping Proxy Reporting Multicast Group up to 4K Multicast Traffic Block / Filtering Protection of malicious multicast traffic from subscriber port
DHCP	DHCP Relay DHCP Sever DHCP message Filtering DHCP Request Flooding protection(DHCP Snooping rate-limiting) DHCP Option 82
Security	DLF, Broadcast, TCP-SYN, IGMP Attack protection DHCP Filtering, Mac Filtering, NetBEUI, NetBIOS Filtering, NBT Packet filtering based on IP address and TCP, UDP port Packet control to well-known port no MAC Spoofing, flooding protection(static MAC, MAC count) Multicast/Broadcast flooding protection Service classifying for the Control Packet(Ping, Telnet, SNMP, FTP, TFTP etc.) 8 CPU queue, Rate-limit to CPU traffic

QoS / ACL	Layer 2(Source/Destination MAC Address, VLAN ID, COS Field) Layer 3(Source/Destination IP Address, DSCP Field) Priority/Parameter based QoS 8 queue per port SPQ, WRR, SPQ + SDWRR Egress Rate-shaping : port DSCP marking/remarking Ingress ACL : 3K

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