

DATA SHEET

M1200T – 1U Pseudowire / Mobile Backhaul Platform



Features

- Small footprint as Cell Site Router Product
- Network management via OAM (802.1ag/Y.1731)
- Ethernet Ring Protection (G.8032)
- CES Service (SAToP / CESoPSN)
- CAS Signaling / RBS for T1
- Pseudowire Encapsulation
- SNMPv1/v2/v3 with RMON, Alarms
- Improved QoS and differentiated traffic service
- RADIUS, TACACS+ Authentication
- Realtime network traffic monitoring and analyzing
- IEEE1588v2 TC/BC & SyncE
- BITS Input / Output
- Power: Dual -48VDC inputs

Overview

DASAN Networks' small footprint M1200T platform can be used for various applications, including migration of existing TDM based legacy services to a next-generation networks and mobile backhaul applications. With low power consumption and high service scale, M1200T is optimized for small aggregation and remote point-of-presence (POP) applications making it a highly cost effective option. The M1200 provides four 10 gigabit Ethernet ports, 16 gigabit Ethernet ports (8 electric and 8 optic, fixed) and 8 E1/T1 PWE3 interfaces. To ensure equipment reliability the M1200 supports redundant DC power modules.

Pseudowire Services – TDM Migration to IP

PWE³ provides a migration path from TDM to IP allowing traditional TDM services to be extended seamlessly over existing packet switched networks.

- Comprehensive support of PWE3 standards
- 8 E1/T1 legacy services carried over packet networks (MPLS, CoE, IP) via pseudo-wire (PWE3)
- CES Service (SAToP / CESoPSN)
- CAS Signaling / RBS for T1 and CCS for E1

Ethernet Services

- Network management via OAM (802.1ag/Y.1731)
- Ethernet Ring Protection (G.8032)
- Link aggregation (802.3ad)
- Improved QoS and differentiated traffic service
- Traffic Prioritization via VLAN tagging and priority labeling



Specification

Flash Memory	512MB(B/L+NOS)
SDRAM	512MB DDR3
Main Chassis	4 port 10G-Base-R(SFP+)
	8 port 100/1000Base-X(SFP)
	+ 8 port 100/1000Base-T(RJ45)
	+ 8 port E1/T1(RJ45)
Power	2 Input(-48V/24V)
Management	Total 2 Ports(RJ45)
	- 1 port RS232 : Console
	- 1 port FE : MGMT
Clock Interface	4 Ports(2 SMA, 2 RJ45)
	- 1 port 1PPS (SMA)
	- 1 port 10MHz (SMA)
	- 1 port TOD (RJ45)
	- 1 port BITS(RJ45)
MAC Table	16K
VLAN	4K
L3 IPv4	32K(LPM)/16K(Host)
L3 IPv6	16K(LPM)/8K(Host)
Switching Capacity	72Gbps (Full-duplex)
Operating Temp.	-40~65°C
Operating Humidity	5~90% (non-condensing)
Power Voltage	DC : -48/24VDC
Power Consumption	36.1[W]
Dimensions (WxHxD)	440 x 44 x 200mm
Switching Capacity	72Gbps (Full-duplex)

Capabilities

Layer 2	• Standard Ethernet Bridging
	• Port/Subnet/Protocol-based VLAN
	• 16K MAC Address Entries
Multicast	• Spanning Tree: STP, RSTP, MSTP
	• VLAN port filtering
	• Destination address port filtering
QoS	• Source MAC address learning
	• IGMP snooping management
	• Ethernet type / L4-based ACL
OAM	• SSHv1/v2
	• QoS and Marking : SP, WRR, DWRR
	• Cos/QoS acc. to 802.1p, DSCP/TOS, IP
CES Feature	• Fully compliant with IEEE 802.1ag(CFM)
	• Fully compliant with ITU-T Y.1731
	• Ethernet Ring Protection(G.8032)
Clock Function	• E1/T1 Circuit Emulation
	• SAToP(RFC4553), CESoPSN(RFC5086)
	• ACR, DCR Timing mode support
Management	• CAS Signaling RBS
	• Pseudowire
	• IEEE 1588v2 BC/TC
Management	• PTP BMCA (Both direction)
	• Synchronous Ethernet(SyncE)
	• 1PPS, 10MHz, TOD, BITS
Management	• Serial / Telnet (CLI)
	• RMON
	• SNMPv1/v2/v3