

MICROSEMI TimeCreator 1000

DTI SERVER

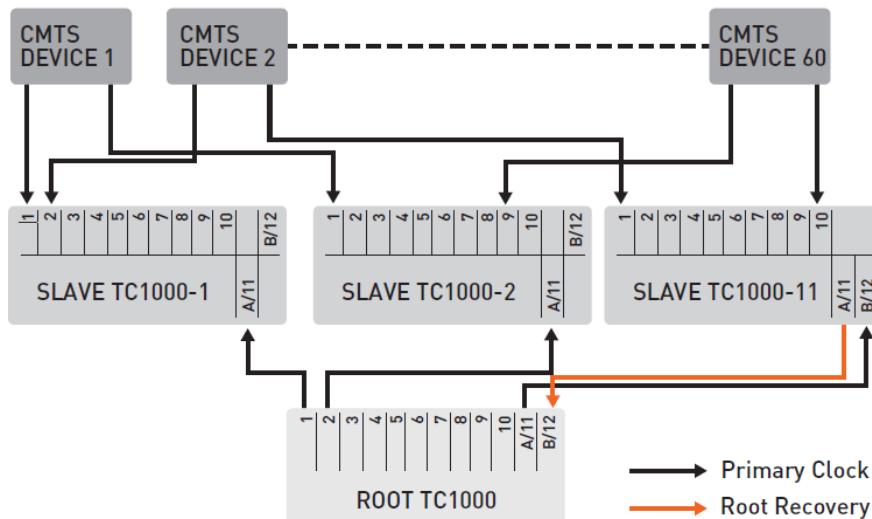


The Microsemi TimeCreator 1000 is a DOCSIS Timing Interface (DTI) Server for a cable operator's headend or hub network – designed to deliver the high reliability and the precise time and frequency synchronization needed for advanced cable networks. With a modular architecture and software options to increase capacity, the TimeCreator 1000 enables operators to deploy with flexibility to balance economics, scalability, functionality and resiliency.

TimeCreator 1000 is a CableLabs compliant DTI server available with optional GPS traceability, redundant clock cards, redundant power supplies, and an NTP server option. TimeCreator 1000 is a fundamental part of a cable operator's headend or hub network deploying M-CMTS, DOCSIS 3.0 or Business Services over DOCSIS.

FEATURES

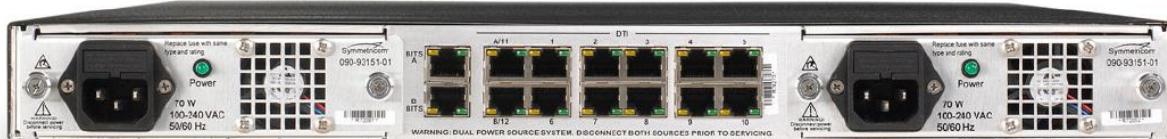
- High precision, CableLabs DTI compliant
- High reliability, carrier grade design
- Flexible architecture in a 1RU Chassis
- Root or slave DTI server capable
- 4, 8 or 12 DTI client connections, field upgrade software options
- Scales to 121 ports in root and slave configuration
- SNMP and CLI manageable via dedicated fast Ethernet port
- Automatic client health monitoring and configuration
- NTP server option for BSS/OSS
- GPS and NTP for expanded services
- Fully redundant clock and power cards
- Hitless switching, hot swappable when configured for redundancy
- AC or DC power options
- Software upgradeable for future standards



Configuration for a large scale deployment with one root DTI server and multiple slave DTI servers

SPECIFICATIONS

PHYSICAL ARCHITECTURE
1 RU shelf with plug-in modules
3 module types: Input/Output/Clock (IOC), Information Management Card (IMC), Power Supply
Supports redundant IOC and Power Supply modules
INPUTS
GPS (two-way timing antenna) enables Stratum 1 traceability and global timestamps
2 dual mode DTI client ports to support slave server mode and redundancy
BITS ports (reserved for future use)
CLOCK
24 hour holdover when using GPS
OUTPUTS
4,8 or 12 DTI client ports (2, 6, 10 output ports and 2 dual mode input/output)
Up to 132 ports unprotected or 60 ports protected in root & slave configuration
10.24 MHz master frequency
10 KHz frame clock
NTP server fast Ethernet port, RJ-45
MANAGEMENT FEATURES
1 fast Ethernet management port, RJ-45
SNMP v2c & v3
Local and remote management
Console port for local management
Telnet & SSH support
Firmware upgradeable via SFTP
LED status & alarm indicators
Event logging
Radius and TACACS+
Per port performance monitoring
Per port delay and path calibration
PHYSICAL SPECIFICATIONS
1.75" H x 19" W x 20" D (4.445 cm H x 48.26 cm W x 50.8 cm D)
Weight: 11 lbs (4.6 kg)
POWER REQUIREMENTS
AC Power module 100-240V AC, 50/60 Hz
DC Power module -48V DC
Optional power supply redundancy
OPERATING ENVIRONMENT
Temperature: 0°C to 40°C, 32°F to 104°F
Humidity: 10% to 90% RH non-condensing
STORAGE ENVIRONMENT
Temperature: -25°C to 70°C, -13°F to 158°F
Humidity: 5% to 90% RH non-condensing
SAFETY
UL/CSA 60950-1
EN60950-1, IEC60950-1
CE Mark
NRTL
EMC
FCC Part 15, ICES-003 Class B
EN300-386v1.3.3
CE Mark
ROHS
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TimeCreator 1000 back view