



AT-CV5M02

Convertreon™ Series Management Card

Overview

The AT-CV5M02 adds management configuration and monitoring capabilities to the AT-CV5000 Convertreon media chassis. A chassis can be installed with any range of media blades, which can be used in an unmanaged mode. With the addition of a management card to the chassis, all the blades setup option can be configured via the management module, allowing a network administrator to change configuration remotely, and monitor the status of both the chassis and the links.

Key Features

Chassis Management

- For local chassis - temperature/voltage/fan speed monitoring and reading
- For remote chassis - dying gasp and 1st RPS failure via OAM

Management Interface and Administration

- SNMP v1, v2c, v3, Telnet, Web GUI, and local RS232 support
- Integrated SNMP and IEEE OAM management
- DHCP and NTP client support
- Broadcast Storm Protection

Management Card Redundancy

- Support either auto or manual fast switch over
- Fast switch over design (standby card database always consistent with active card)

IEEE 802.3ah OAM Remote Line Card

- Management
- Fault detection, performance monitoring, and remote loopback
- Allied Telesis organization specific events – image download, and SFP inform retrieval

Line Card Management

- Support six combo operating modes (LT/ML/SML + OAM)
- Summary menu display all line card and ports configurations and status brief info
- Enable/disable low power Eco-friendly mode for one line card or all line cards
- Firmware upgrade on a per single/multiple/all line card basis
- Single image to support all CM3xx series line cards
- Soft reset one line card or all line cards in the chassis

Port Management

- Port configuration and port status/statistics display
- Bandwidth allocation (ingress/egress rate limiting)
- SNMP RMON statistics support

Configuration File Management

- Management card system parameter configuration and backup
- Line card configuration backup in management card
- Auto-copy/save line card configuration
- Display (default/current/last saved) configuration
- Return line card to (default/last saved) configuration

Alarms/Traps

- Event logging and syslog support
- Remote chassis dying gasp or 1st RPS failure
- RPS voltage failure
- Management card or line card reboot
- Temperature threshold crossing
- Module (RPS/FAN/line card/SFP) insertion/removal
- SFP Digital Diagnostics Monitoring (DDM) alarm
- Line card port up/down and remote line card copper port failure

Diagnostics

- Display chassis and module type, MAC address, S/N, hardware rev, software version
- Local line card real-time IPC message analyzer
- Remote line card real-time OAM analyzer
- Display SFP information and SFP DDM (Digital Diagnostics Monitoring) information

* Managed local line card and port via chassis backplane IPC, managed remote line card and port via IEEE 802.3ah OAM

Management Modes

The AT-CV5M02 supports three management modes

- SNMP
- Telnet
- Local RS232

Both the local RS232 and the Telnet mode allow the user to monitor and manage a Converteon chassis using a menu driven, Web GUI. When configured for SNMP, a network administrator can not only configure the chassis, but also receive network warnings relative to link failures, power supply failures and equipment being over temperature, etc.

Connection by an RS232 port is achieved by attaching a computer or terminal to the DB-9 connector on the front panel of the management card. Telnet and SNMP sessions connect via the 10/100TX connection also located on the front panel.

In addition, each management card has six diagnostic LEDs to aid in troubleshooting.

IEEE 802.3ah (OAM) Remote Management

When deployed with any media blades that support IEEE 802.3ah 'Ethernet in the First Mile' such as the AT-CM202, AT-CM2K0S, AT-CM3xx, and AT-CM70S modules, the AT-CV5M02 management card can also manage and monitor the remote blades connected only to the local chassis over fiber optics.

Hassle Free Support

All Allied Telesis Ethernet media converter line cards have free technical support, ensuring trouble-free installation.

Technical Specifications

Status Indicators

LED	State	Description
PWR	Green	The CPM card is receiving power
	OFF	The CPM card is not receiving power
RDY	Green	The CPM card has passed diagnostics and is ready
	OFF	The CPM card has failed diagnostics and is not ready
FLT	Red	The CPM card has experienced fault condition
	OFF	The CPM card has reported no fault condition
LK	Green	Link established on the card Ethernet port
	OFF	No link established on the card Ethernet port
AT	Flashing	TX/RX activity established on the card Ethernet port
	OFF	No activity established on the card Ethernet port
FD	Green	The CPM card is operating in full-duplex mode
	OFF	The CPM card is operating in half-duplex mode

Connectors

RS232	Female DB-9
	Baud speed 1200 ~ 115200bps
Ethernet	10/100TX, auto MDI/MDI-X

Management Features

Management Interfaces

RS232 (Local Login):	Username and Password protected (Enable/Disable Local Login)
Telnet (Remote Login):	Username and Password protected (Enable/Disable Remote Login)
SNMP Managers:	Named SNMP Manager (Enable/Disable SNMP) (Up to 4 SNMP manager)

DHCP

DHCP client (Enable/Disable)

System Warnings

Over temperature warning
PSU failure warning
Fan failure warnings
Line card failure
Insert/Remove Power Supply
Insert/Remove fan module
Insert/Remove line card

Operational Warnings

Link Up/Down

Event Logging

Time and date stamp for all log entries
Internal log
Syslog

Administration

Diagnostics
Firmware upgrade (management card)
Firmware upgrade (line card firmware)
Configure MissingLink™
Configure Smart MissingLink™
Configure link monitor
Configure IEEE 802.3ah OAM
Web GUI interface
Management card redundancy
Multiple local and remote line card image download
Local and remote line card configuration backup in management card
Auto-copy line card configuration
Local and remote line card port flow control
Support NTP client
Broadcast Storm Protection

Physical Specifications

Dimensions (H x W x L)	2.2cm x 7.3cm x 13cm (.855" x 2.89" x 5.10")
Weight:	0.60 lbs 0.27 kg

Package Contents

One AT-CV5M02 CPM card
One DB-9 RS-232 serial cable
Installation guide
Warranty card

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Power Characteristics

Input supply voltage 5vDC, 3.3vDC
Maximum input current 1.15 A (5vDC), 0.86 A (3.3vDC)
Power consumption 9.6 watts maximum

System Capacity

32MB DRAM
8MB flash memory

Environmental Specifications

Operating temperature 0°C to 40°C
(32°F to 104°F)
Storage temperature -25°C to 70°C
(-13°F to 158°F)
Operating relative humidity 5% to 90% RH
(non-condensing)
Storage relative humidity 5% to 95% RH
(non-condensing)
Operating altitude range up to 3,048m (10,000ft)

Standards

EMI part 15:
FCC class A, EN55022 class A, VCCI class A, C-Tick, CE

Immunity:
EN55024

Safety:
UL60950-1 (cULUS), EN60950-1 (TUV)

Quality and Reliability:
MTBF > 100,000 hrs

Electrical Interfaces:
UL60950 (UL/cULus)
EN60950 (TUV)
CSA22.2 No. 950

Ordering Information

AT-CV5M02
SNMP management module

Associated Products

AT-CVI000-xx
Single slot Converteon chassis

AT-CVI203-xx
Two slot Converteon chassis

AT-CV5000-xx
18 slot, Converteon chassis

USA Headquarters | 19800 North Creek Parkway | Suite 100 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895
European Headquarters | Via Motta 24 | 6830 Chiasso | Switzerland | T: +41 91 69769.00 | F: +41 91 69769.11
Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830

www.alliedtelesis.com

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