613-000805 Rev. B

AT-CV5M0x Management Card Installation Guide

Overview

The AT-CV5M0x Management Card, provides a CPU subsystem for an Allied Telesis Converteon Series chassis except for the AT-CV1000. The AT-CV5M0x Management Card is shipped with the management software preinstalled that allows you to configure and monitor the status of the media converter line cards in the chassis. The AT-CV5M0x Management Card is hot-swappable into and out of a Converteon chassis.

Related Documents

For details on the features and functions of a Converteon chassis, refer to the relevant documents on our web site, www.alliedtelesis.com.

Verifying Package Contents

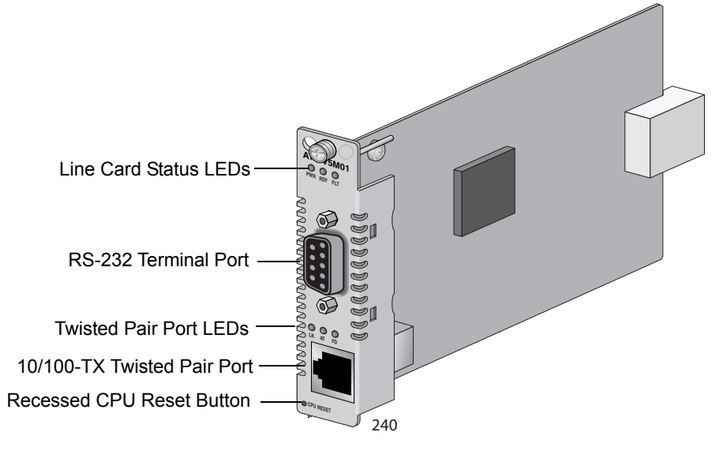
Ensure that the following items are included in your package:

- One AT-CV5M0x Management Card
- One terminal port cable with a DB-9 connector
- This installation guide

If any item is missing or damaged, contact your Allied Telesis sales representative for assistance.

AT-CV5M0x Management Card Components

The AT-CV5M0x Management Card has the components shown below.



Port Descriptions

Terminal Port

The default settings for the RS-232 terminal port are:

- Baud rate: 115200 bps (range 2400 to 115200 bps)
- Data bits: 8
- Parity: None
- Stop bits: 1
- Flow control: None

A terminal port cable is provided.

10/100Base-TX Twisted Pair Port

The 10/100Base-TX compliant twisted pair port allows you to establish a remote management session with a maximum operating distance of 100 meters (328 feet). The port requires a cable (not provided) with an 8-pin RJ-45 connector. The pinouts for this port are shown in “Twisted Pair Port Pinouts.”

Recessed CPU RESET Button

The recessed CPU RESET button allows you to reset only the management card. You may need to reset the management card after upgrading the firmware or after you have made a configuration change that requires resetting the card to activate the change.

Note
This reset button does not reset the line cards and/or the module installed in the expansion slot at the rear of the chassis.

LEDs

The management card has three status LEDs and the twisted pair port has three LEDs, as described in “LED Descriptions.”

Installing an AT-CV5M0x Management Card

Note
Before installing an AT-CV5M0x Management Card, refer to the appropriate Converteon chassis installation guide for electrical safety and emissions information.

Warning: Remove all metal jewelry, such as rings and watches, before installing or removing a line card from a powered-on chassis.

Caution: Be sure to observe all standard electrostatic discharge (ESD) precautions, such as wearing an antistatic wrist strap, to avoid damaging the device. A line card can be damaged by static electricity.

Note
You can install a Converteon line card in any Converteon chassis line card slot.

To install an AT-CV5M0x Management Card, perform the following procedure:

1. Remove the AT-CV5M0x Management Card from its shipping package and store the package in a safe location. You must use the original package if you need to return the unit to Allied Telesis.
2. Select any line card slot in the chassis where you want to install the management card, and remove the blank slot cover if one is installed.
3. Align the back edge of the management card with the top and bottom alignment guides located inside the slot.
4. Slide the management card into the slot until the front of the card is flush with the front of the chassis.

Note
Avoid touching the line card components.

5. Secure the AT-CV5M0x Management Card to the chassis by using a Phillips screwdriver to tighten the captive screw on the management card faceplate.

Note
Always tighten the captive screw to secure the management card to the chassis. Leaving an AT-CV5M0x Management Card partially seated may cause the CPU to halt and subsequently crash.

For information about how to configure the terminal port and how to start a local or remote management session, refer to the relevant management software user’s guide.

For information about removing or resetting an installed AT-CV5M0x Management Card, refer to the installation guide for the chassis model you are using.

LED Descriptions

Status LEDs

The management card has three status LEDs, as described in the following table.

LED	State	Description
PWR	Green	The management card is receiving power.
	Off	The management card is not receiving power if this LED is off for more than 10 seconds.
RDY	Green	The management card has passed diagnostics and is ready.
	Off	The management card has failed diagnostics and is not ready.
FLT	Red	The management card has a fault condition.
	Off	The management card has not reported a fault condition.

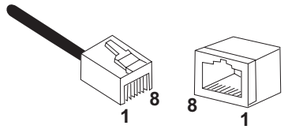
Twisted Pair Port LEDs

The twisted pair port on the management card has three LEDs, as described in the following table.

LED	Color	Description
LK	Green	A link has been established on the port.
	Blinking Green	While in Smart MissingLink mode, a valid connection is established on the port while a link on the other port is lost.
	Off	No link has been established on the port.
AT	Blinking Green	TX/RX activity has been detected on the port.
	Off	There is no TX/RX activity on the port.
FD	Green	The port is operating in full-duplex mode.
	Off	The port is operating in half-duplex mode.

Twisted Pair Port Pinouts

The pinouts for the RJ-45 twisted pair port are shown in the following illustration.



The following table lists the RJ-45 pin signals when a twisted pair port is operating in the MDI or MDI-X mode.

MDI Mode		MDI-X Mode	
Pin	**Signal**	**Pin**	**Signal**
1	TX+	1	RX+
2	TX-	2	RX-
3	RX+	3	TX+
6	RX-	6	TX-

Warranty Information

The AT-CV5M0x Management Card has a limited warranty of five years. Go to www.alliedtelesis.com/warranty for the specific terms and conditions of the warranty and for warranty registration.

Specifications

Dimensions (H x W x L)	2.2 cm x 7.3 cm x 13.0cm (.855 in. x 2.89 in. x 5.1 in.)
Weight	0.27 kg (0.60 lbs.)
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% (non-condensing)
Storage Relative Humidity	5% to 95% (non-condensing)
Operating Altitude Range	Up to 3,048 m (10,000 ft.)
Predicted MTBF (Telcordia SR332)	1,320,000 hours
Input Supply Voltage	5V DC, 3.3 V DC
Maximum Input Current	1.15 A (5V DC), 0.86 A (3.3V DC)
Power Consumption	9.6 Watts maximum

Electrical Safety and Emissions Statements

This product meets the following standards when installed in compliant host equipment.

U.S. Federal Communications Commission

RADIATED ENERGY
Note: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Note: Modifications or changes not expressly approved of by the manufacturer or the FCC, can void your right to operate this equipment.

Industry Canada

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Emissions FCC Class A, EN55022 Class A, VCCI Class A, C-TICK, CE

Warning: In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Immunity EN55024

Electrical Safety UL60950 ($_{c}$UL$_{us}$), EN60950 (TUV), CSA22.2 No. 950

WPP
RECYCLABLE