

# Converteon™ Series

## Managed Media Conversion System

### AT-CV1000

Single-slot Converteon chassis

### AT-CV1203

Two-slot Converteon chassis

### AT-CV5001

18-slot Converteon chassis



### Overview

Allied Telesis Converteon™ is an end-to-end managed media conversion system. The cornerstone of the system is the 2U high, 18-slot chassis. Converteon is capable of meeting the most demanding needs, with blades available in Fast Ethernet and Gigabit converting rate and media from Fiber to Copper. A one-slot and two-slot chassis is also available for remote locations where an 18-slot chassis is not needed. Support for IEEE 802.3ah Ethernet in the First Mile (EFM) makes Converteon ideal for both service providers and the Enterprise.

### Power Options and Redundancy

All the sold-separately Converteon power supplies are hot swappable and modular. Installing two into a chassis provides redundancy should a single

power supply fail. In an unmanaged chassis, the status of each power supply is displayed via an LED indicator on the front panel. A fully-loaded chassis can run continuously with only one power module fitted into the chassis. Built-in intelligent fan speed auto adjustment algorithm is based on the chassis temperature monitoring. Software generates SNMP trap when chassis temperature exceeds 65°C. Software also generates SNMP trap when FAN speed is below 2647 RPM and temperature exceeds 65°C.

### Hassle-Free Support

Allied Telesis offers free technical support, ensuring trouble-free installation.

## Key Features

### Three Chassis Options:

#### AT-CV1000

- ▶ One-slot chassis
- ▶ External power adapter
- ▶ Redundant PSU optional
- ▶ Silent, fanless design
- ▶ Standalone or wallmount

#### AT-CV1203

- ▶ Two-slot chassis
- ▶ External power adapter
- ▶ Redundant PSU optional
- ▶ Supports dying gasp
- ▶ Standalone or wallmount

#### AT-CV5001

- ▶ 18-slot rackmount chassis
- ▶ Optional redundant power supply
- ▶ Optional Telnet and SNMP management (AT-CV5M02)
- ▶ Optional redundant management with the addition of a second management module (AT-CV5M02)
- ▶ Hot-swappable blades
- ▶ Hot-swappable power supply modules (AT-CV5001AC-60 and AT-CV5001DC-80)

## Technical Specifications

PRODUCT	WIDTH	DEPTH	HEIGHT	WEIGHT
AT-CV1000	10.48 cm (4.12 in)	17.77 cm (7 in)	2.54 cm (1 in)	0.47 kg (1.05 lb)
AT-CV1203	4.6 cm (1.8 in)	20 cm (7.8 in)	10 cm (4 in)	0.28 kg (0.62 lb)
AT-CV5001 LED card and rear panel	44 cm (17.31 in)	34.3 cm (13.5 in)	8.9 cm (3.5 in)	5.54 kg (12.20 lb)
AT-CV5001 (AC/DC)	19.1 cm (7.5 in)	19.1 cm (7.5 in)	6.7 cm (2.62 in)	1.72 kg (3.80 lb)

### Power Characteristics

#### AT-CV1000 and AT-CV1203

Power adapter style:	In line (IEC power inlet)
Input voltage:	100-240V AC 50/60Hz, auto-sensing
Output voltage:	12vDC @ 2A
Chassis	
Nominal input:	12vDC
Input current:	1.06A @ 12vDC

#### AT-CV5001

AC input voltage:	100 ~ 240V AC 3A, 50/60Hz 140W max.
DC input voltage:	30 ~ 60vDC, 6A, 140W max.

### 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 humidity	5% to 90% (non-condensing)
Storage humidity	5% to 95% (non-condensing)
Max operating altitude	3,000 m (10,000 ft)
Max storage altitude	4,000 m (13,100 ft) (AT-CV1000, AT-CV1203)
Operating and storage altitude	Up to 3,048 meters (10,000 feet) (AT-CV5001)
Predicted MTBF	1,220,000 hrs (AT-CBV1000)
(Telcordia SR332):	230,000 Hrs (AT-CV1203) 64,000 hrs (AT-CV5001)

### Status Indicators

#### AT-CV5001

LED	STATE	DESCRIPTION
PS-A	Green	Power supply in slot A is operating normally.
	Off	Power supply in slot A is OFF, not present, or has failed.
PS-B	Green	Power supply in slot B is operating normally.
	Off	Power supply in slot B is OFF, not present, or has failed.
FAN-A	Green	Fan of PS-A is operating normally.
	Off	Fan of PS-A is OFF or has failed.
FAN-B	Green	Fan of PS-B is operating normally.
	Off	Fan of PS-B is OFF or has failed.

### 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)

# Converteon Series Line Cards

#### AT-CM301

10/100TX, 100FX (ST, 2km, MM) media and rate converter line card, with OAM

#### AT-CM302

10/100TX, 100FX (SC, 2km, MM) media and rate converter line card, with OAM

#### AT-CM3K0S

10/100/1000T, 100/1000Mbps SFP, media and rate converter line card, with OAM

#### AT-CV1KSS

1000X to 1000X SFP media converter line card

## Key Features

- ▶ Converts speed as well as media type
- ▶ System and port LEDs
- ▶ Extends Ethernet, Fast Ethernet, Gigabit networks
- ▶ 10K jumbo frame support
- ▶ Supports IEEE 802.3ah "Ethernet in the First Mile" (Allied Telesis CM Series)
- ▶ Rate limiting
- ▶ Support MissingLink™ and Smart MissingLink™
- ▶ Remote chassis dying gasp and first RPS failure via OAM (Allied Telesis CM Series)
- ▶ Transparent to IEEE 802.1Q VLAN packets
- ▶ Low power Eco-friendly mode
- ▶ Automatic address learning and aging
- ▶ Port flow control and port statistics
- ▶ Managed or unmanaged operation
- ▶ Supports dual speed SFP (AT-CM3K0S only)
- ▶ Auto MDI/MDI-X
- ▶ Supports SFP DDM (Digital Diagnostic Monitoring) reading
- ▶ Auto-negotiation (IEEE 802.3u-compliant)
- ▶ One image runs all CM3xx Series line cards
- ▶ Store and forward data packet handling
- ▶ Supports multi-mode and single-mode fiber (At-CM3K0S and AT-CV1KSS)

# Converteon Series | Managed Media Conversion System



		CONVERTEON MODULES			
FEATURES		AT-CM301	AT-CM302	AT-CM3K0S	AT-CV1KSS
PORTS	Port 1	10/100TX	10/100TX	10/100/1000T	SFP
	Port 2	100FX (ST)	100FX (SC)	100/1000X SFP	1000X SFP
	Fiber type	MMF	MMF	Depends on SFP	Depends on SFP
IEEE STANDARD		100FX	100FX	1000X	1000X
Tx WAVELENGTH		1310 nm	1310 nm		1310 nm
Rx WAVELENGTH		1310 nm	1310 nm		1310 nm
MAX FIBER DISTANCE		2 km	2 km	Depends on SFP	Depends on SFP
FUNCTIONALITY	Media type	■	■	■	■
	Rate and speed	■	■	■	■
	MissingLink support	■	■	■	■
	Smart MissingLink support	■	■	■	■
	Max frame size	10KB	10KB	10KB	9KB
	Diagnostic LEDs	9	9	9	5
	Rate limiting	■	■	■	■
OAM	Dying gasp support	■	■	■	
	Management	■	■	■	
ECO-FRIENDLY		■	■	■	

## Ordering Information

### Chassis

#### AT-CV5001

18-slot 2U, rack-mountable chassis for Converteon blades (Power supply sold separately)

#### AT-CV1203-xx

Two-slot chassis for Converteon blades

#### AT-CV1000-xx

One-slot chassis for Converteon blades

Where xx = 10 for US power adapter  
20 for European power adapter  
30 for UK power adapter  
40 for Australian power adapter

### Power Supplies

#### AT-CV5001AC-60

AC power module for AT-CV5001 chassis

#### AT-CV5001DC-80

DC power module for AT-CV5001 chassis

#### AT-CV1200PSU

Redundant 2nd PSU for AT-CV1203

### Management Module

#### AT-CV5M02

Converteon Series management line card

### Blades

#### AT-CV1KSS

1000X SFP to 1000X SFP Converteon line card

#### AT-CM301

10/100TX, 100FX (ST, 2km) Converteon media and rate converter line card with OAM and Jumbo Frame support

#### AT-CM302

10/100TX, 100FX (SC, 2km) Converteon media and rate converter line card with OAM and Jumbo Frame support

#### AT-CM3K0S

10/100/1000T, 100/1000X (SFP) Converteon media and rate converter line card with OAM and Jumbo Frame support

### Accessories

#### AT-CVFAN

Converteon CV5000 Fan Tray

#### AT-CVMCR

Adapter to fit one AT-CV1000 in an MCR12 slot

#### AT-CVMNT12

Wall mount bracket for AT-CV1203

### Associated Products

#### AT-SPSX

1000SX (SC), 220m multi-mode Fiber Gigabit module

#### AT-SPLX10

1000SX (SC), 10m single-mode Fiber Gigabit module

#### AT-SPTX

1000T, 100m copper Gigabit module



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