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 (Telcordia SR332):	1,220,000 hrs (AT-CBV1000) 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
- Extends Ethernet, Fast Ethernet, Gigabit networks
- Supports IEEE 802.3ah "Ethernet in the First Mile" (Allied Telesis CM Series)
- Support MissingLink™ and Smart MissingLink™
- Transparent to IEEE 802.1Q VLAN packets
- Automatic address learning and aging
- Managed or unmanaged operation
- Auto MDI/MDI-X
- Auto-negotiation (IEEE 802.3u-compliant)
- Store and forward data packet handling
- Supports multi-mode and single-mode fiber (At-CM3K0S and AT-CV1KSS)
- System and port LEDs
- 10K jumbo frame support
- Rate limiting
- Remote chassis dying gasp and first RPS failure via OAM (Allied Telesis CM Series)
- Low power Eco-friendly mode
- Port flow control and port statistics
- Supports dual speed SFP (AT-CM3K0S only)
- Supports SFP DDM (Digital Diagnostic Monitoring) reading
- One image runs all CM3xx Series line cards

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

North America Headquarters | 19800 North Creek Parkway | Suite 100 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895
Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830
EMEA & CSA Operations | Incheonweg 7 | 1437 EK Rozenburg | The Netherlands | T: +31 20 7950020 | F: +31 20 7950021

alliedtelesis.com

617-00591_RevA