MCF3300

1RU, Modular, Media Conversion Chassis

The Allied Telesis MCF3300 is a 1RU three-blade chassis able to support up to 24 media conversions, dependent on connector type. The MCF3300 is powered by hot-swappable AC or DC power supplies, which allows for flexibility amongst connection types and speeds. At 1RU high, it is the industry's smallest form factor model for up to 24 media conversions.

Overview

The Allied Telesis MCF3300 has different blade options enabling customers to mix environments.

▶ **MCF3000/8SP**
8 x 100/1000Mb SFP to 10/100/1000T

▶ **MCF3000/8LC**
8 x 1000SX/LC to 10/100/1000T

▶ **MCF3010SPT/4SP**
4 x SFP+ to 4 x 10/100/1G/2.5G/5G/10GT SFP+

▶ **MCF3010SP/4SP**
4 x SFP+ to 4 x SFP+

The MCF3000/8SP accepts 100Mb or 1G SFPs allowing backwards compatibility for older networks. The MCF3010's accept 1G and 10G SFP's, ensuring the MCF3300 will be able to handle the most robust conversion needs.

Managed Media Conversion

The management function allows network administrators to monitor Media Converter status and configure the MCF3300 remotely via Web Browser, Telnet, SSH or Console Port. This product is ideal for telecommunications and corporate applications, where a number of fiber links need to be managed and controlled from a central location.

Security Features

Robust security features allow you to control user access to the chassis, to ensure that only authorized personnel can view and change the settings of the slide-in modules.

▶ Access Control Lists (ACLs) can be configured to allow access to authorized users and deny access to all others.*

▶ Management VLAN: the chassis uses system-assigned VLANs on the blades. No blade traffic is routed to the management card. This keeps management traffic separate from data traffic. DHCP is supported to obtain an IP address on the management card.

▶ Secure Shell (SSH) authentication supports both Rivest-Shamir- Adleman (RSA) and Digital Signature Algorithm (DSA) for public key cryptography, for both connection and authentication.

SNMPv3

SNMPv3 is derived from and builds upon SNMPv1 & SNMPv2c. This technology provides commercial-grade security and ease of administration, which includes authentication, authorization, access control, and privacy. The secure management of SNMPv3 provides security with authentication and privacy. Its administration offers logical contexts, view-based access control, and remote configuration.

SNMPv3 supports authentication and encryption. SNMPv3 uses User-Based Security Model (USM) for authentication and message security, and View-Based Access Control Model (VACM) for access control rules.

* Feature available in a future software release

Key Features

▶ Configure, monitor and troubleshoot remotely via the management module

▶ Backup/restore/upgrade

▶ Ethernet interfaces

▶ USB console port

▶ 1RU, 3-slot design

▶ Robust security features

▶ Complete system hardware monitoring

▶ MissingLink

▶ Enhanced user management

▶ Multiple IP addressing modes (IPv4, DHCP, Static)

▶ SNMP v1, SNMP v2c, and SNMP v3

▶ Ability to shut down a port or whole card for power saving or security

▶ Ability to enable/disable remote management (Telnet and SSH)

▶ Limited AMF support

▶ Redundant Power Supply Unit (PSU)

▶ Automatic assignment of IPv6 addresses

▶ Can be used as an unmanaged chassis without the management card

Software Management

Features
- Configure/delete user accounts (up to ten)*
- Configure/delete user passwords
- Reset management card
- Reset chassis
- Download/upload firmware via TFTP
- Download/upload config via TFTP
- Download/upload firmware via thumb drive
- Download config to media blades
- Upload config from media blades
- IP address
- Subnet mask
- Gateway
- Set SNMP management addresses
- Chassis name
- Chassis location
- Set media blade port name
- Enable/disable port link
- Enable/disable port MissingLink
- Enable/disable port Smart MissingLink*
- Enable/disable port auto-negotiation
- Enable/disable port full-duplex

Chassis Information
- Part number
- Serial number
- Firmware Revision
- User-defined identifier (By name)
- User-defined location (SNMP)

Blade/Port Module Information
- Media blade type
- Slot occupied
- Firmware Revision
- Configuration
- Ports on module
- User-defined identifier
- User-defined port identifier

Blade/Port Module Status
- Port link status
- Port link
- Port activity

Events/Alarms/Traps
- Cold start
- Warm start
- Link up/down
- Blade insertion/removal
- Fan module insertion/removal
- Power supply module insertion/removal
- Stacking link up/down
- Authenication failure
- Chassis reset
- Module reset
- Temperature threshold crossed
- Power supply failure
- Fan speed failure
- TFTP session open/close
- XMODEM session open/close
- Telnet session open/close

Technical Specifications

Physical Characteristics

MCF3300 Chassis

Dimensions (W x D x H)	43.81 x 43.81 x 4.45 cm (17.25 x 17.25 x 1.75 in)	
Mounting:	19 inch rack-mountable	
Weight		

Chassis with Face Plates: 4.4 kg (9.7 lb)
With 1 PSU: 4.99 kg (11.0 lb)

MCF3000/8SP:	0.45 kg (1.1 lbs)
MCF3000/8LC:	0.59 kg (1.3 lbs)
MCF3010SPT/4SP:	0.45 kg (1.1 lbs)
MCF3000M:	0.34 kg (0.75 lbs)
MCF3010SP/4SP:	0.43 kg (0.94 lbs)

MCF3300PWR-960 AC Power Module

Interface:	1 x IEC power inlet
Fans:	2 x exhaust fans
Electrical Characteristics: Input power:	100~250V AC 50/60Hz
Weight	0.59 kg (1.3 lbs)

MCF3300PWR-980 DC Power Module

Interface:	3-wire screw terminal (Vin+, Vin-, Chassis Ground)
Fans:	2 x exhaust fans
Electrical Characteristics: Input power:	40-60 VDC
Weight:	0.82 kg (1.81 lbs)

Max Power Consumption

MCF3300 Chassis	100W
MCF3000/8LC Module	13W
MCF3000/8SP Module	21W
MCF3010SPT/4SP Module	30W
MCF3000M Module	7W
MCF3010SP/4SP	26W

System Operating Parameters
- Operating temperature 0ºC to 50ºC (32°F to 122°F)
- Storage temperature -25ºC to 70ºC (-13°F to 158°F)
- Operating humidity 5% to 95% (non-condensing)
- Storage humidity 5% to 95% (non-condensing)
- Operating altitude 4,000 meters (10,000 feet)
- Storage altitude 4,000 meters (10,000 feet)
- Vibration: IEC 68-2-36
- Shock: IEC 68-2-29
- Drop: IEC 68-2-32
- Flammability: UL94V-0

Standards and Compliance

RFC 792	ICMP
RFC 1213	MIB-II
RFC 1350	TFTP
RFC 1492	TACACS*
RFC 1769	SNTP (Simple Network Time Protocol)
RFC 2131	DHCP client
RFC 2616	HTTP
RFC 4330	SNTP
RFC 5343	SNMP
RFC 6101	SSL
IEEE 802.3	CSMA/CD
IEEE 802.3i	10T
IEEE 802.3u	100TX
IEEE 802.3z	1000SX/LX
IEEE 802.3z/ab	1000T
IEEE 802.3x	Flow control
IEEE 802.1x	Authentication
IEEE 802.1x	Remote authentication through RADIUS*
IEEE 802.1d	Bridging
IEEE 802.1Q	Tagged VLAN
IEEE 802.1d	Spanning-Tree

UL/EN 62368-1
CSA22.2 No.950
TUV
CE
FCC Class A
EN55032
EN55024 Class A
EN61000-3-2
EN61000-3-3
VCCI Class A
ICES
  RoHS

* Feature available in a future software release

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FEATURES	MCF3000/8SP	MCF3000/8LC	MCF3010SPT/4SP	MCF3010SP/4SP
Port 1	8 x 10/100/1000T	8 x 10/100/1000T	4 x 10/100/1G/2.5G/5G/10G SFP+	SFP+ (1G or 10G)
Port 2	8 x SFP (100 or 1000)	8 x 1000SX/LC	4 x SFP+ (1G or 10G)	SFP+ (1G or 10G)
Fiber Type	Depends on SFP	1G MMF	Depends on SFP	Depends on SFP
TX Wavelength	Depends on SFP	850 nm	Depends on SFP	Depends on SFP
RX Wavelength	Depends on SFP	850 nm	Depends on SFP	Depends on SFP
Max Fiber Distance	Depends on SFP	550 m	Depends on SFP	Depends on SFP
Speed & Media Conv.	✔	✔	✔	✔
MissingLink	✔	✔	✔	✔
Max Frame Size	10kb	10kb	10kb	10kb
Diagnostic LEDs	✔	✔	✔	✔

Ordering Information

AT-MCF3300-960
TAA (Federal) 3-Slot, 1RU, up to 24 Media Converter Chassis, 1 AC PSU included

AT-MCF3300-980
TAA (Federal) 3-Slot, 1RU, up to 24 Media Converter Chassis, 1 DC PSU included

AT-MCF3300PWR-960
TAA (Federal) Optional Spare/Redundant AC PSU for MCF3300 chassis

AT-MCF3300PWR-980
TAA (Federal) Optional Spare/Redundant DC PSU for MCF3300 chassis

AT-MCF3000M
TAA (Federal) MCF3300 management module

AT-MCF3000/8SP
TAA (Federal) 8 x 100/1000Mb SFP to 10/100/1000T Blade for MCF3300 chassis

AT-MCF3000/8LC
TAA (Federal) 8 x 1000SX/LC to 10/100/1000T Blade for MCF3300 chassis

AT-MCF3010SPT/4SP
TAA, 4 x SFP+ to 4 x 10/100/1G/2.5G/5G/10GT SFP+

AT-MCF3010SP/4SP
TAA, 4 x SFP+ to 4 x SFP+

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