Media Converters

Solutions that let you extend and evolve your network.

Allied Telesis media converters extend network distances by adding fiber and VDSL (via coax and telephone-grade twisted pair) only where it is needed. This enables customers to keep pace with changing technology and to integrate high-bandwidth devices into the network without changing the entire network infrastructure. From standalone units to chassis-based blades, Allied Telesis media converters are highly configurable to meet every need.

Allied Telesis media converters enable the connection of disparate cabling types in networks where many cabling types exist. Network segments may also operate at different speeds, and media converters can be used to convert between speeds. Typically, media converters are used to connect copper and fiber-optic cabling that coexist in a network. Converters exist in a variety of standalone, multi-port, and modular forms. These different physical forms address the need for different applications and conversion densities.

Unmanaged

MMC Series

The Allied Telesis MMC Series of mini media converters leverages its smaller size to not only help the environment with a small carbon footprint, but also to save space in its working environment. Despite its compact size, the MMC Series delivers all the power and functionality of standard size media converters.

		FAST AND GIGABIT ETHERNET STANDALONE MEDIA CONVERTERS			
FEATURES		**MC101XL ***	**MC102XL ***	**MMC6005**	**MMC6006**
PORTS	Port 1	100TX	100TX	10/100/1000T	10/100/1000T
	Port 2	100FX (ST)	100FX (SC)	RJ-11 VDSL/2	BNC VDSL/2
	Type	MMF	MMF		
IEEE STANDARD		100FX	100FX		
VDSL2 STANDARD				ITU G.993.2	
Tx WAVELENGTH		1310 nm	1310 nm		
Rx WAVELENGTH		1310 nm	1310 nm		
MAX DISTANCE		2 km	2 km	3 km	2 km
FUNCTIONALITY	Rate and speed			■	■
	MissingLink support	■	■		
	Smart MissingLink support			■	■
	Max frame size	9KB	9KB	10KB	10KB
	Diagnostic LEDs	7	7	4	4
POWER SUPPLY	PSU type	External	External	External	External
	Multi-region	■	■	■	■
	Compatible with rackmount chassis	MCR12 TRAY4	MCR12 TRAY4	MMCR18 MMCTRAY6	MMCR18 MMCTRAY6

* Only available in Europe

COMING SOON

		FAST ETHERNET, GIGABIT AND 10G STANDALONE OR RACKMOUNTABLE MINI MEDIA CONVERTERS						
FEATURES		**MMC200 /LC/SC/ST**	**MMC200LX /SC/ST**	**MMC2000 /LC/SC/ST**	**MMC2000/SP**	**MMC2000LX LC/SC**	**MMC2000/T**	**MMC10G MMC10GT**
PORTS	Port 1	10/100/1000T	10/100/1000T	10/100/1000T	10/100/1000T	10/100/1000T	10/100/1000T	10GT or SFP+
	Port 2 (available in these connector types)	100FX (LC) 100FX (SC) 100FX (ST)	100FX (SC) 100FX (ST)	1000SX (LC) 1000SX (SC) 1000SX (ST)	100/1000 SFP	1000SX (LC) 1000SX (SC)	10/100/1000T	SFP+ or SFP
	Type	MMF	SMF	MMF	SMF / MMF	SMF		SMF / MMF
IEEE STANDARD		100FX	100FX	1000SX	100FX / 1000X	1000LX	10/100/1000T	10G Base-T 10G Base-X
Tx WAVELENGTH		1310 nm	1310 nm	850 nm	Depends on SFP	1310 nm		Depends on SFP
Rx WAVELENGTH		1310 nm	1310 nm	850 nm	Depends on SFP	1310 nm		Depends on SFP
MAX DISTANCE		2 km	20 km	550 m	Depends on SFP	20 km	100 m	Depends on SFP
FUNCTIONALITY	Rate and speed	■	■	■	■	■	■	■
	Smart MissingLink support	■	■	■	■	■	■	■
	Max frame size	10KB	10KB	10KB	10KB	10KB	10KB	
	Diagnostic LEDs	4	4	4	4	4	4	4
	Smark Link restoration	■	■	■	■	■	■	■
POWER SUPPLY	PSU type	External	External	External	External	External	External	External
	Multi-region	■	■	■	■	■	■	■
	Compatible with a rackmount chassis	MMCR18 MMCTRAY6	MMCR18 MMCTRAY6	MMCR18 MMCTRAY6	MMCR18 MMCTRAY6	MMCR18 MMCTRAY6	MMCR18 MMCTRAY6	MMCR18 * MMCTRAY6

* limitations will apply

Desktop Powered

The Allied Telesis DMC100 and DMC1000 Series of Gigabit mini media converters are among the smallest media converters in the market today. At just 1.25 in wide x 3.6 in deep x 0.85 in high, these media converters can easily fit into the palm of your hand. In addition to being compact — with a small carbon footprint — the DMC Series can be powered with the included micro USB to USB cable plugged into your PC or laptop, or with an external wall-type power adapter.

The UMC Series are powered and transfer data via the USB port. There is no need for copper cabling or a power cable to enable fiber to the desktop, workstation or laptop. Simply plug the fiber into the UMC200/2000 and the USB port into the PC.

		FAST ETHERNET AND GIGABIT DESKTOP USB OR EXTERNAL POWERED		SUPERSPEED USB 3.1/USB-C/USB-A TO FIBER MEDIA CONVERTERS	
FEATURES		**DMC100 /LC/SC/ST**	**DMC1000 /LC/SC/ST**	**UMC200 /SC/ST**	**UMC2000 /SC/LC/SP**
PORTS	Port 1	100TX	1000T	USB 3.1 / USB-C / USB-A	USB 3.1 / USB-C
	Port 2	100FX (LC) 100FX (SC) 100FX (ST)	1000SX (LC) 1000SX SC) 1000SX (ST)	100FX (SC) 100FX (ST)	1000SX (LC) 1000SX SC) 100 or 1000 SFP (SP)
	Type	MMF	MMF	MMF	MMF
IEEE STANDARD		100FX	1000SX	100FX	1000SX (SP depends on SFP)
Tx WAVELENGTH		1310 nm	850 nm	1310 nm	850 nm (SP depends on SFP)
Rx WAVELENGTH		1310 nm	850 nm	1310 nm	850 nm (SP depends on SFP)
MAX DISTANCE		2 km	550 m	2 km	550 m (SP depends on SFP)
FUNCTIONALITY	Smart MissingLink support	■	■	■	■
	Max frame size	16KB	16KB	16KB	16KB
	Diagnostic LEDs	4	4	4	4
	Smark Link restoration	■	■	■	■
	Wake-on-LAN			■	■
POWER SUPPLY	PSU type	External	External	USB	USB

Mounting Hardware

The majority of unmanaged Allied Telesis media converters can be mounted in a number of ways.

Desktop

All Allied Telesis media converters have the option to be fitted with rubber feet. These allow the product to be positioned on the desktop.

Universal Power Supply

For customers already using Allied Telesis media converters, replacement power adapters are available.

- **MCPWR**
  Universal, high-efficiency external power adapter

MMC Rack

- **MMCR18**
  This chassis allows mounting of up to 18 standalone MMC Series media converters. The chassis supports optional redundant power supplies and can be AC or DC powered. Standard, 19-inch, rack.

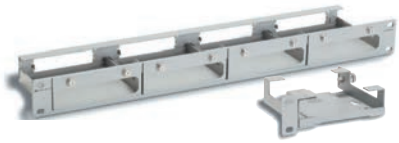
- **MMCTRAY6**
  This 1RU rackmount tray allows the mounting of up to six MMC Series media converters.

Rack

Larger multi-channel and modular media converters ship with 19" rackmount kits. Smaller media converters may also be rackmounted in a number of ways:

- **MCR12** chassis
  This chassis allows mounting of up to 12 standalone media converters or switches. The chassis supports optional redundant power supplies and can be AC or DC powered.

- **TRAY1** and **TRAY4**
  These simple trays allow one to four standalone media converters to be mounted into a rack.



PoE & Industrial

PoE Series

Allied Telesis PC PoE Series media converters are the ideal solution for powering remote devices such as IP phones, video cameras, wireless access points, etc., which are more than 100 m from a Power over Ethernet switch.

		POE GIGABIT ETHERNET STANDALONE		POE FAST ETHERNET STANDALONE
FEATURES		**PC2000 /LC/SC**	**PC2000/SP**	**PC200/SC**
PORTS	Port 1	10/100/1000T	10/100/1000T	10/100TX
	Port 2	1000SX (LC) 1000SX (SC)	SFP 100/1000X	100FX
	Connector	LC or SC	LC *	SC
IEEE STANDARD		1000SX	100FX, 1000SX, 1000LX	100FX
Tx WAVELENGTH		850 nm	Depends on SFP	1310 nm
Rx WAVELENGTH		850 nm	Depends on SFP	1310 nm
MAX FIBER DISTANCE		550 m	Depends on SFP	2 km
FUNCTIONALITY	Rate and speed	■	■	■
	Smart MissingLink support	■	■	■
	Max frame size	10KB	10KB	10KB
	Diagnostic LEDs	6	6	6
	Smark Link restoration	■	■	
POWER OVER ETHERNET	PoE-enabled ports	1	1	1
	Max no. of full power ports	1	1	1
	Mode	A	A	A
	PoE power	IEEE 802.3at (30W)	IEEE 802.3at (30W)	IEEE 802.3at (30W)
POWER SUPPLY	PSU type	Internal	Internal	Internal
	Multi-region	■	■	■

* Dependant on SFP

Allied Telesis industrial Ethernet media converters offer an operating range from -40° to 75°C. The temperature-hardened IMC Series features Plug-and-Play and auto-negotiation.

IMC Series

Allied Telesis industrial media converters are the perfect fit for networks needing an extended temperature range. They extend the distance of the network by converting data between twisted pair cabling and multi-mode or single-mode fiber-optic cabling.

These industrial rate and media converters are capable of accepting 100MB or Gigabit SFP modules (auto sensing). With Remote Power Cycle you do not need to be onsite to cycle the power on the end device, saving you time and money.

		INDUSTRIAL MEDIA CONVERTERS			
FEATURES		**IMC2000TP /SC/SP**	**IMC2000T /SC/SP**	**IMC200TP/SC**	**IMC200T/SC**
PORTS	Port 1	10/100/1000T	10/100/1000T	10/100TX	10/100TX
	Port 2	1000X SFP (SP), 1000SX (SC)	1000X SFP (SP), 1000SX (SC)	100FX	100FX
	Connector	SFP (SP) or SC	SFP (SP) or SC	SC	SC
IEEE STANDARD		100FX / 1000X SFP (SP) 1000SX (SC)	100FX / 1000X SFP (SP) 1000SX (SC)	100FX	100FX
Tx WAVELENGTH		Depends on SFP (SP), 850 nm (SC)	Depends on SFP (SP), 850 nm (SC)	1310 nm	1310 nm
Rx WAVELENGTH		Depends on SFP, (SP) 850 nm (SC)	Depends on SFP, (SP) 850 nm (SC)	1310 nm	1310 nm
MAX FIBER DISTANCE		Depends on SFP (SP), 550 nm (SC)	Depends on SFP (SP), 550 nm (SC)	2 km (SC)	2 km (SC)
FUNCTIONALITY	Rate and speed	■	■	■	■
	Max frame size	10KB	10KB	10KB	10KB
	Diagnostic LEDs	■	■	■	■
POWER OVER ETHERNET	IEEE 802.3at Class 4	■		■	
	IEEE 802.3at PoE+ and LTPoE++, 4-pair up to 70W	■		■	
	PoE enabled ports	1		1	
	Mode	A		A	
POWER SUPPLY	PSU type	-48 to 57vDC	-12 to -48vDC	-48 to 57vDC	-12 to -48vDC

Chassis-Based

MCF3000 Series

The Allied Telesis MCF3300 is a 1RU, three blade, chassis able to support up to 24 conversions, (dependent on connector type). This chassis is powered by hot-swappable AC or DC power supplies. This allows for flexibility amongst connection types/speeds as well as the industry's smallest form factor for up to 24 media conversions at 1RU high. The MCF3100 can be used on it's own, or remotely, and is a single slot chassis able to house one of the blades (with up to eight conversions) available in the MCF3000 family.

With both Gig (MCF3000) and 10 Gig (MCF3010) blades the MCF3300 chassis family will be able to handle the most robust conversion needs. The SFP port on the MCF3000/8SP enables backward compatibility to 100MB networks, while the SFP+ port on the MCF3010T/4SP will handle 10G distances beyond the standard 220m using our complete line of optics.

- **MCF3300**
  3-slot up to 24 media converter chassis
- **MCF3100** COMING SOON
  1-slot up to 8 media converter chassis
- **MCF3000/8SP**
  8 x 100/1000MB SFP to 10/100/1000T
- **MCF3000/8LC**
  8 x 1000SX/LC to 10/100/1000T
- **MCF3010T/4SP**
  4 x 10GT to SFP+
- **MCF3000M**
  Management module

» Configure, monitor, troubleshoot remotely via the management module
» Backup/restore/upgrade
» Ethernet interfaces
» USB console port
» 1 RU, 3-slot design
» Complete system hardware monitoring
» Missing Link/Smart Missing Link
» Enhanced user management
» Syslog (System Logging)
» Multiple IP addressing modes (IPv4/IPv6, DHCP, Static, Bootp)
» 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
» Limited AMF support
» Redundant Power Supply (capable)

SFP and SFP+ Optics
Learn more about Allied Telesis pluggable optics.