Allied Telesyn

Simply Connecting the World

AT-MC105XL
AT-MC106XL

Fast Ethernet Media Converters

Installation Guide

PN 613-10800-00 Rev. A

Safety and Interference Warnings

STANDARDS: This product meets the following standards

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 Canad

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.

RFI Emission EN55022 Class A

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

Immunity EN50082-1

WARNING: This product requires shielded cables to comply with emission and immunity standards. If it is used with unshielded cables, the user may be required to take measures to correct the interference problem at their own expense.

Electrical Safety TUV-EN60950, UL1950, CSA 950

Laser EN60825

IMPORTANT: Appendix A contains translated safety statements for installing this equipment. When you see the ☞, go to Appendix A for the translated safety statement in your language.

WICHTIG: Anhang A enthält übersetzte Sicherheitshinweise für die Installation dieses Geräts. Wenn Sie ☞ sehen, schlagen Sie in Anhang A den übersetzten Sicherheitshinweis in Ihrer Sprache nach.

VIGTIGT: Tillæg A indeholder oversatte sikkerhedsadvarsler, der vedrører installation af dette udstyr. Når De ser symbolet ☞, skal De slå op i tillæg A og finde de oversatte sikkerhedsadvarsler i Deres eget sprog.

BELANGRIJK: Appendix A bevat vertaalde veiligheidsopmerkingen voor het installeren van deze apparatuur. Wanneer u de ☞ ziet, raadpleeg Appendix A voor vertaalde veiligheidsinstructies in uw taal.

IMPORTANT: L'annexe A contient les instructions de sécurité relatives à l'installation de cet équipement. Lorsque vous voyez le symbole ☞, reportez-vous à l'annexe A pour consulter la traduction de ces instructions dans votre langue.

TÄRKEÄÄ: Liite A sisältää tämän laitteen asentamiseen liittyvät käännetyt turvaohjeet. Kun näet ☞-symbolin, katso käännettyä turvaohjetta liitteestä A.

IMPORTANTE: l'Appendice A contiene avvisi di sicurezza tradotti per l'installazione di questa apparecchiatura. Il simbolo ☞, indica di consultare l'Appendice A per l'avviso di sicurezza nella propria lingua.

VIKTIG: Tillegg A inneholder oversatt sikkerhetsinformasjon for installering av dette utstyret. Når du ser ☞, åpner du til Tillegg A for å finne den oversatte sikkerhetsinformasjonen på ønsket språk.

IMPORTANTE: O Anexo A contém advertências de segurança traduzidas para instalar este equipamento. Quando vir o símbolo ☞, leia a advertência de segurança traduzida no seu idioma no Anexo A.

IMPORTANTE: El Apéndice A contiene mensajes de seguridad traducidos para la instalación de este equipo. Cuando vea el símbolo ☞, vaya al Apéndice A para ver el mensaje de seguridad traducido a su idioma.

OBS! Bilaga A innehåller översatta säkerhetsmeddelanden avseende installationen av denna utrustning. När du ser ☞, skall du gå till Bilaga A för att läsa det översatta säkerhetsmeddelandet på ditt språk.

Table of Contents

AT-MC105XL and AT-MC106XL Fast Ethernet Media Converters

The AT-MC105XL and AT-MC106XL convert IEEE 802.3u 100Base-TX to 100Base-SX multimode Fast Ethernet network connections. The 100Base-SX interface is available in ST or SC connectors for multimode fiber cabling. The 100Base-TX interface uses an RJ45 shielded connector.

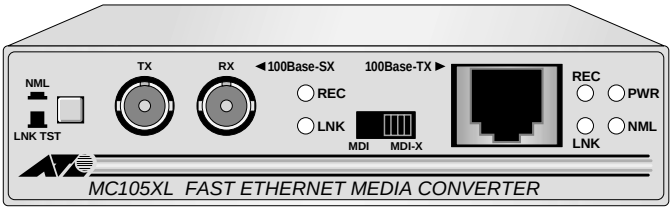

Figure 1 AT-MC105XL Front Panel (ST multimode connector)

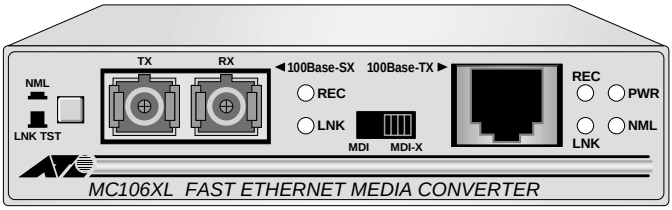

Figure 2 AT-MC106XL Front Panel (SC multimode connector)

Key Features

The media converters have the following key features:

- ❑ LEDs for unit and port status
- ❑ MDI/MDI-X Switch
- ❑ NML/LNK TST Switch
- ❑ 100Base-TX ports participate in auto-negotiation for 100 Mbps and half- or full-duplex modes
- ❑ MissingLink™ provides link fault detection on 100Base-TX segments
- ❑ External AC-DC Power Adapter
- ❑ Standard, compact size for use with AT-MCR12 rack-mount chassis
- ❑ Low power consumption

Note

For definitions of technical terms associated with Allied Telesyn products, refer to the Glossary on Allied Telesyn's website at **www.alliedtelesyn.com**.

LEDs

The PWR LED in the upper right corner of the front panel lights when the media converter is receiving power. Status LEDs are located on the front panel next to each port and described in Table 1.

Table 1 LEDs

LED	Color	State	Description
PWR	Green	**ON**	Power is applied.
NML	Green	**ON**	Unit is operating in normal mode.
		OFF	Unit is operating in link test mode.
REC	Green	**ON**	Data is being received on the port.
LNK	Green	**ON**	Link established on the port.

MDI/MDI-X Switch

The MDI/MDI-X (Media Dependent Interface/Media Dependent Interface with Crossover) switch, located on the front panel, is a straight-through or crossover cable selection switch. It enables the RJ45 port to be connected to a repeater or DTE device without using a special crossover cable. The default position of the switch is MDI-X, which means you can connect the RJ45 port to a workstation or to any other DTE device using a straight-through cable.

NML/LNK TST Switch

The NML/LNK TST (Normal/Link Test) switch, located on the front panel, establishes a fiber/twisted pair link in the test position.

The default position of the switch is IN, which is the normal (NML) operating mode and enables the MissingLink feature. With the switch in the OUT or Link Test Mode (LNK TST) position, the MissingLink feature is disabled and the optical transmitter TX is forced on. The NML LED lights when the NML/TST LNK switch is in the default (IN) operating position.

Note

Using the Link Test Mode does not interfere with the media converter's ability to pass network traffic.

Auto-Negotiation

The 100Base-TX ports participate in IEEE 802.3u Standard auto-negotiation with its local link partner.

Note

End stations used with the media converter must operate in the same duplex mode (either both full-duplex or both half-duplex).

Note

The media converters have an additional feature, allowing the unit to operate in 100 Mbps half-duplex mode. Certain applications require this mode, for example two media converters installed in a back-to-bac configuration (fiber-to-fiber) which are attached to unmanaged repeaters and/or switches that auto-negotiate with the other. Forinstructions on how to set up the media converter for this application, visit the Technical Support area of Allied Telesyn's web site at **www.alliedtelesyn.com**.

MissingLink™

MissingLink gives the host (router, server, switch) attached to each end of the converter critical information about the status of the other (remote) segment link. If either link fails, the converter interacts with both hosts, making each instantly aware of the link fault. Either host can then execute preprogrammed, redundant transmission path selection.

External AC-DC Power Adapter

An external AC-to-DC power adapter is included with the fast switch for standalone operation (see Figure 3).The power adapter supplies 12 volts DC to the media converter.Allied Telesyn supplies an approved safety compliant AC power adapter for the 120 and 240 V AC versions with an unregulated outp of 12 V DC at 1 A. The power required for the media converter is 12 V DC, 500 mA.

Figure 3 External AC-DC Power Adapter (North American version)

Package Contents

Make sure the media converter package contains the following items:

- ❑ AT-MC105XL or AT-MC106XL Fast Ethernet Media Converter
- ❑ Four Protective Feet (for standalone use only)
- ❑ External AC-DC Power Adapter
- ❑ This Installation Guide.

Contact your sales representative if any items are missing or damaged.

Installing the Media Converter

Read the warnings below before beginning any installation.

Warning

LIGHTNING DANGER: DO NOT WORK on equipment or CABLES during periods of LIGHTNING ACTIVITY **1**
DO NOT BLOCK AIR VENTS **2**

The following steps are for a standalone installation. To install media converters in a rack-mount chassis, see “Rack-mount Chassis Installation” on page 7. For information concerning back-to-back converter configuration, see “Back-to-Back Installation” on page 7.

Standalone Installation

1. Remove all equipment from the package and store the packaging in a safe place

2. Attach the four rubber feet to the base of the unit, placing one rubber foot in each corner. For rack-mount installation, do not attach the four rubber feet.

3. Plug the AC-DC power adapter into an appropriate AC power outlet and insert the power plug into the DC receptacle located on the rear panel.

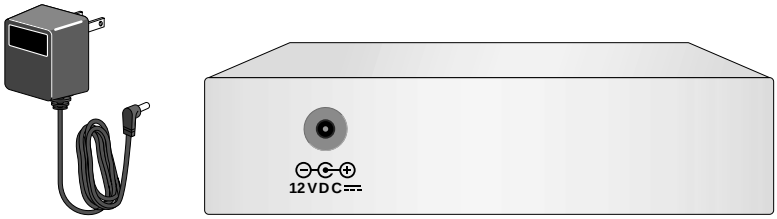

Figure 4 12 V DC Connector on Rear Panel

4. Verify that the PWR LED lights green.

5. Set the unit in Link Test Mode

6. Remove the dust cap from the fiber optic connectors.

7. Plug the appropriate fiber cable into the connector. See Table 3 for IEEE 802.3u cabling specifications

8. Connect the other end of the fiber cable to the desired end station. Verify that the link LED is ON.

9. If you are making a direct connection to a workstation using straight-through cable, set the MDI/MDI-X switch to the MDI-X position. (MDI-X is the default position.)

   If you are connecting the media converter to a hub, switch, or another media converter with a straight-through cable, set the MDI/MDI-X switch to the MDI position. See Figure5.

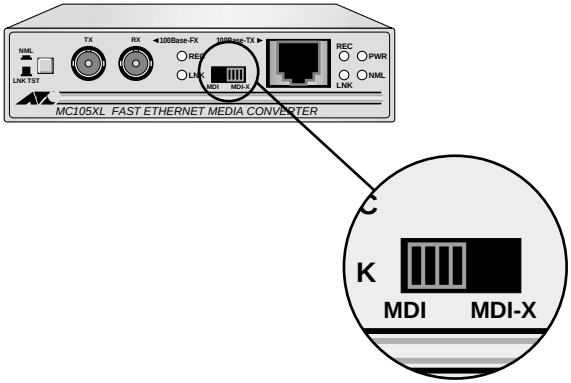

Figure 5 MDI/MDI-X Switch

10. Plug a Category 5 twisted pair cable into the RJ45 connector.Connect the other end of the twisted pair cable to the desired end station. Verify that the Link LED is ON

11. Set the unit to Normal (NML) Mode for normal operation.

Note

End stations used with the media converter must operate in the same duplex mode (either both full-duplex or both half-duplex).

Note

The media converters have an additional feature, allowing the unit to operate in 100 Mbps half-duplex mode. Certain applications require this mode, for example two media converters installed in a back-to-bac configuration (fiber-to-fiber) which are attached to unmanaged repeaters and/or switches that auto-negotiate with the other. Forinstructions on how to set up the media converter for this application, visit the Technical Support area of Allied Telesyn's web site at **www.alliedtelesyn.com**.

Back-to-Back Installation

Review the following before doing a back-to-back installation. See Figure8 f or an illustration of a back-to-back-media converter configuration.

- ❑ During installation, setup, and testing of back-to-back media converters, make sure each media converter is in the Link Test Mode.
- ❑ When two media converters are connected back-to-back with no UTP/ STP cables connected and when the NML/LNK TST switch is in the OUT position (Link Test Mode), the fiber REC LEDs on each converter may flash. This is normal and will not affect the normal operation of the converters.
- ❑ When operating two media converters in a back-to-back configuration, Allied Telesyn recommends that the MissingLink feature on one or both of the converters be disabled. The MissingLink feature can be disabled by placing the NML/LNK TST switch in the OUT position (LNK TST Mode). Disabling the Link Test Mode does not interfere with the converter's ability to pass network traffic.

Rack-mount Chassis Installation

To install the media converter in the rack-mount chassis, refer to the "AT-MCR12 Media Converter Chassis Installation Manual" or visit the Technical Support area of Allied Telesyn's website at **www.alliedtelesyn.com.** Figure 6 shows the AT-MCR12 rack-mount chassis

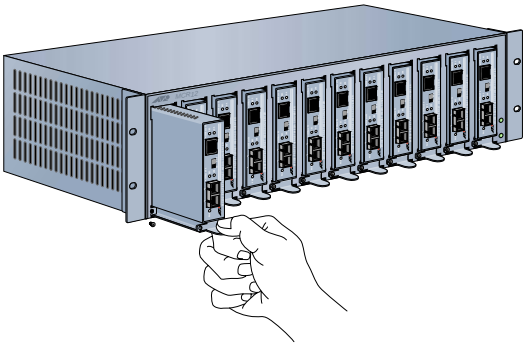

Figure 6 AT-MCR12 Rack-mount Chassis

Configurations

Figure 7 shows a typical network configuration with a workstation connected to a switch.

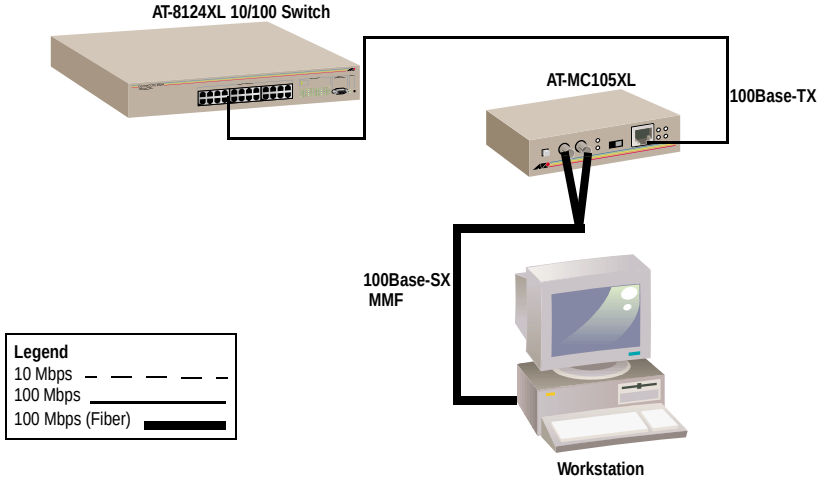

Figure 7 Connection to Workstation and Switch

Figure 8 shows two media converters in a back-to-back configuration.

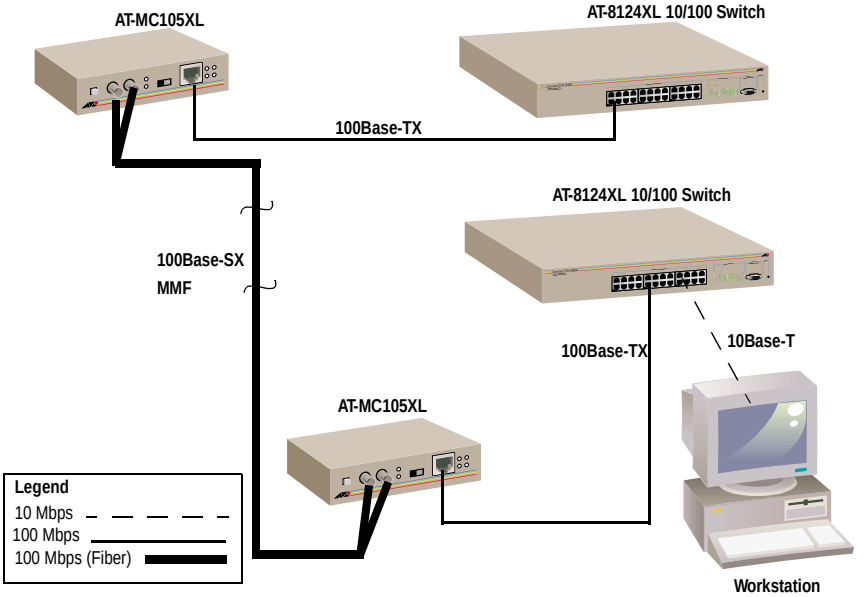

Figure 8 AT-MC105XL Back-to-Back Configuration

Troubleshooting

To troubleshoot your media converter,perform the following:

1. Set the unit in the Link test Mode.
2. End stations used with the media converter must operate in the same duplex mode (either both full-duplex or both half-duplex).
3. Verify that the twisted pair cable is Category 5.
4. Verify that proper fiber cable is being used: multimode for the AT-MC105XL and AT-MC106XL.
5. Verify that the near end node transmitter (TX) is connected to the far end node receiver (RX) and vice versa on the fiber segment.

Technical Specifications

Table 2 lists the media converter technical specifications

Table 2 Media Converter Technical Specifications

Specifications	
Dimensions (W x D x H)	4.125 in x 3.75 in x 1.0 in (10.5 cm x 9.5 cm x 2.5 cm)
Max. Operating temperature	0° C to 40° C (32° F to 104° F)
Max. Storage temperature	-20 ^{0}C to 80^{0} C (-4° F to 176° F)
Operating altitude	up to 10,000 ft (3,048 m)
Humidity	5% to 80% (noncondensing)
EMI/RFI	meets FCC Class A, EN55022 Class A
Safety	EN60825 EN60950
Immunity	EN50082-1 Immunity Standard
Power Input supply voltage Max. current Power consumption	 12 V DC +/-5% 500 mA 6W

Recommended Cables and Cable Specifications

Table 3 lists the IEEE 802.3u cabling specifications for the media converters. Refer to this table for cabling recommendations.

Table 3 IEEE 802.3u Cabling Specifications for AT-MC105XL and AT-MC106XL

	100Base-SX	**100Base-TX**
Media	850 nm multimode fiber, 50/125 micron 850 nm multimode fiber, 62.5/125 micron	Unshielded/Shielded Twisted Pair Category 5 only
Topology	Star, Tree	Star, Tree
External Devices	Network Adapter Card, Repeater, Switch, or Router	Network Adapter Card, Repeater, Switch, or Router
Maximum Segment Length	Multi-mode fiber: 984 ft (300 m) for full- or half-duplex	328 ft (100 m)

Technical Support and Service

You can contact the reseller or distributor where you purchased your product for local assistance. If local support is unable to resolve the problem, Allied Telesyn offers technical support via fax, e-mail or telephone.

Refer to Appendi xD or Allied Telesyn's website at **www.alliedtelesyn.com** for current world-wide office locations.

Warranty

The media converters have a lifetime warranty. The power adapter has a one year warranty.

Appendix A

Electrical Safety and Installation Requirements

STANDARDS: This product meets the following standards

U.S. Federal Communications Commissi

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.

RFI Emission EN55022 Class A

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

Immunity EN50082-1

WARNING: This product requires shielded cables to comply with emission and immunity standards. If it is used with unshielded cables, the user may be required to take measures to correct the interference problem at their own expense.

Electrical Safety TUV-EN60950, UL1950, CSA 950

Laser EN60825

This is a "CLASS 1 LED PRODUCT"

SAFETY

1 **LIGHTNING DANGER**
DANGER: DO NOT WORK on equipment or CABLES during periods of LIGHTNING ACTIVITY.

2 DO NOT BLOCK AIR VENTS

Power to the hub must be sourced only from the adapter.

USA/CANADA
Use a UL Listed/CSA Certified AC adapter of DC 12V, 500mA.

EUROPE - EU
Use TÜV licensed AC adapter of DC 12V, 500mA.

UK
Use a UK Safety Approved AC adapter of DC 12V, minimum 500mA.

OPERATING TEMPERATURE
This product is designed for a maximum ambient temperature of 40 degrees C.

ALL COUNTRIES: Install product in accordance with local and National Electrical Codes.

NORMEN: Dieses Produkt erfüllt die Anforderungen der nachfolgenden Normen

Hochfrequenzstörung EN55022 Klasse A

WARNUNG: Bei Verwendung zu Hause kann dieses Produkt Funkstörungen hervorrufen. In diesem Fall müßte der Anwender angemessene Gegenmaßnahmen ergreifen.

Störsicherheit EN50082-1

ACHTUNG: Für dieses Produkt sind abgeschirmte Kabel erforderlich, damit den Richtlinien für Emission und Interferenzschutz entsprochen wird. Falls das Produkt mit nicht abgeschirmten Kabeln verwendet wird, können weitergehende Maßnahmen für die Korrektur von Interferenzproblemen auf Kosten des Benutzers notwendig werden.

Elektrische Sicherheit TUV-EN60950, UL1950, CSA 950

Laser EN60825

Das ist ein "LED Produkt der Klasse 1"

SICHERHEIT

1 **GEFAHR DURCH BLITZSCHLAG**
GEFAHR: Keine Arbeiten am Gerät oder an den Kabeln während eines Gewitters ausführen

2 ENTLÜFTUNGSÖFFNUNGEN NICHT VERSPERREN

Der Buchse darf nur aus dem Adapter Strom zugeführt werden.

EUROPE - EU
Gebrauchen Sie einen von TÜV zugelassenen Wechselstromadapter für Gleichstrom 12 V, 500 mA.

BETRIEBSTEMPERATUR
Dieses Produkt wurde für den Betrieb in einer Umgebungstemperatur von nicht mehr als 40° C entworfen.

ALLE LÄNDER: Installation muß örtlichen und nationalen elektrischen Vorschriften entsprechen.

STANDARDER: Dette produkt tilfredsstiller de følgende standarder

Radiofrekvens forstyrrelsesemission EN55022 Klasse A

ADVARSEL: I et hjemligt miljø kunne dette produkt forårsage radio forstyrrelse. Bliver det tilfældet, påkræves brugeren muligvis at tage tilstrækkelige foranstaltninger.

Immunitet EN50082-1

ADVARSEL: Dette produkt skal bruges med afskærmede kabler for at overholde bestemmelserne vedrørende udstråling og støjimmunitet. Hvis det bruges med uafskærmede kabler, kan det blive påkrævet af brugeren at korrigere interferensproblemer for egen regning.

Elektrisk sikkerhed TUV-EN60950, UL1950, CSA 950

Laser EN60825

Dette er et "PRODUKT UNDER KLASSE 1 LED"

SIKKERHED

1 **FARE UNDER UVEJR**
FARE: UNDLAD at arbejde på udstyr eller KABLER i perioder med LYNAKTIVITET.

2 VENTILATIONSÅBNINGERNE MÅ IKKE BLOKERES

Strømforsyningen til apparatet må udelukkende tages fra tilpasningstransformatoren.

EUROPE - EU
Brug kun TÜV godkendt vekselstrømstransformator på 12 V jævnstrøm, 500 mA.

BETJENINGSTEMPERATUR
Dette apparat er konstrueret til en omgivende temperatur på maksimum 40 grader C.

ALLE LANDE: Installation af produktet skal ske i overensstemmelse med lokal og national lovgivning for elektriske installationer.

EISEN: Dit product voldoet aan de volgende eisen.

RFI Emissie EN55022 Klasse A

WAARSCHUWING: Binnenshuis kan dit product radiostoring veroorzaken, in welk geval de gebruiker verplicht kan worden om gepaste maatregelen te nemen.

Immuniteit EN50082-1

WAARSCHUWING: Om te voldoen aan de emissie- en immuniteitsnormen dient dit apparaat te zijn voorzien van afgeschermde kabels. Als het met niet-afgeschermde kabels wordt gebruikt, kan het zijn dat de gebruiker maatregelen moet treffen om interferentieproblemen voor eigen rekening op te lossen.

Electrische Veiligheid TUV-EN60950, UL1950, CSA 950

Laser EN60825

Dit is een "KLASSE 1 LED-PRODUKT

VEILIGHEID

1 **GEVAAR VOOR BLIKSEMINSLAG**
GEVAAR: NIET aan toestellen of KABELS WERKEN bij BLIKSEM.

2 VENTILATIEGATEN NIET BLOKKEREN

Stroom mag alleen via de adapter naar het apparaat toegevoerd worden.

EUROPE - EU
Gebruik een door TÜV gekeurde wisselstroomadapter van 12 Volt gelijkstroom, 500 milliampères.

BEDRIJFSTEMPERATUUR
De omgevingstemperatuur voor dit produkt mag niet meer bedragen dan 40 graden Celsius.

ALLE LANDEN: het toestel installeren overeenkomstig de lokale en nationale elektrische voorschriften.

NORMES: ce produit est conforme aux normes de suivantes

Emission d'interférences radioélectriques EN55022 Classe A

MISE EN GARDE: dans un environnement domestique, ce produit peut provoquer des interférences radioélectriques. Auquel cas, l'utilisateur devra prendre les mesures adéquates.

Immunité EN50082 - 1

AVERTISSEMENT: Il faut utiliser des câbles blindés pour ce produit afin de respecter les normes d'émission et d'immunité. Si l'utilisateur choisit d'utiliser des câbles non blindés, il sera peut-être contraint de prendre les mesures nécessaires pour corriger les problèmes d'interférences, ainsi que d'assumer le coût correspondant.

Sécurité électrique TUV-EN60950, UL1950, CSA 950

Laser EN60825

Ce matériel est un "PRODUIT À DIODE ÉLECTROLUMINESCENTE DE CLASSE 1"

SÉCURITÉ

1 **DANGER DE FOUDRE**
DANGER: NE PAS MANIER le matériel ou les CÂBLES lors d'activité orageuse.

2 NE PAS BLOQUER LES FENTES D'AÉRATION

L'alimentation du concentrateur doit être uniquement fournie par l'adaptateur.

EUROPE - EU
Utiliser un adaptateur secteur conforme TÜV de 12 V, 500 mA en courant continu.

TEMPÉRATURE DE FONCTIONNEMENT
Ce matériel est capable de tolérer une température ambiante maximum de 40 degrés Celsius.

POUR TOUS PAYS: Installer le matériel conformément aux normes électriques nationales et locales.

STANDARDI : Tämä tuote on seuraavien standardien mukainen

Radioaaltojen häirintä EN55022 Luokka A

VAROITUS: Kotiolosuhteissa tämä laite voi aiheuttaa radioaaltojen häiröitä, missä tapauksessa laitteen käyttäjän on mahdollisesti ryhdyttävä tarpeellisiin toimenpiteisiin.

Kestävyys EN50082-1

VAROITUS: Tämä tuote vaatii suojattuja kaapeleita toimiakseen emissio- ja häiriönsietostandardien mukaisesti. Jos tuotetta käytetään ilman suojattuja kaapeleita, käyttäjä voi joutua korjaamaan häirinnän aiheuttaman ongelman omalla kustannuksellaan.

Sähköturvallisuus TUV-EN60950, UL1950, CSA 950

Laser EN60825

Tämä on "ENSIMMÄISEN LUOKAN VALODIODITUOTE"

TURVALLISUUS

1 **SALAMANISKUVAARA**
ENGENVAARA: ÄLÄ TYÖSKENTELE laitteiden tai KAAPELEIDEN KANSSA SALAMOINNIN AIKANA.

2 ÄLÄ TUKI ILMAREIKIÄ

Tähtipisteeseen (hub) syötettävän virran pitää tulla ainoastaan sovittimesta.

EUROPE - EU
Käytä TÜV-lisenssillä valmistettua verkkosovitinta, jonka tasajännitteen nimellisarvot ovat DC 12 V, 500 mA (milliampeeria).

KÄYTTÖLÄMPÖTILA
Tämä tuote on suunniteltu ympäröivän ilman maksimilämpötilalle 40° C.

KAIKKI MAAT: Asenna tuote paikallisten ja kansallisten sähköturvallisuusmääräysten mukaisesti.

STANDARD: Questo prodotto è conforme ai seguenti standard

Emissione RFI (interferenza di radiofrequenza) EN55022 Classe A

AVVERTENZA: in ambiente domestico questo prodotto potrebbe causare radio interferenza. In questo caso potrebbe richiedersi all'utente di prendere gli adeguati provvedimenti.

Immunità EN50082-1

AVVERTENZA: questo prodotto, se utilizzato con cavi schermati, è conforme alle norme sulle emissioni e sull'immunità. In caso di uso senza cavi schermati, l'utente può dover adottare a proprie spese misure correttive contro le interferenze.

Sicurezza elettrica TUV-EN60950, UL1950, CSA 950

Laser EN60825

Questo è un "PRODOTTO CON LED DI CLASSE 1"

NORME DI SICUREZZA

1 **PERICOLO DI FULMINI**
PERICOLO: NON LAVORARE sul dispositivo o sui CAVI durante PRECIPITAZIONI TEMPORALESCHE.

2 NON OSTRUIRE LE PRESE D'ARIA

Questo dispositivo deve essere alimentato solo mediante l'adattatore.

EUROPE - EU
Utilizzare l'adattatore per c.a. da 12 V c.c. e 500 mA conforme alla normativa TÜV.

TEMPERATURA DI FUNZIONAMENTO
Questo prodotto è concepito per una temperatura ambientale massima di 40 gradi centigradi.

TUTTI I PAESI: installare il prodotto in conformità delle vigenti normative elettriche nazionali.

SIKKERHETSNORME : Dette produktet tilfredsstiller følgende sikkerhetsnormer

RFI stråling EN55022 Klasse A

ADVARSEL: Hvis dette produktet benyttes til privat bruk, kan produktet forårsake radioforstyrrelse. Hvis dette skjer, må brukeren ta de nødvendige forholdsregler.

Immunitet EN50082-1

ADVARSEL: Dette produktet må brukes med vernede kabler for å tilfredsstille emisjons- og fritakelsesstandarder. Dersom produktet brukes med uvernede kabler, må brukeren muligens rette forstyrrelsesproblemene for egen regning.

Elektrisk sikkerhet TUV-EN60950, UL1950, CSA 950

Laser EN60825

Dette er et "KLASSE 1 LED PRODUKT"

SIKKERHET

1 **FARE FOR LYNNEDSLAG**
FARE: ARBEID IKKE på utstyr eller KABLER i TORDENVÆR.

2 BLOKKER IKKE LUFTVENTILENE

All strømtilførsel må komme fra adapteren.

EUROPE - EU
Benytt TÜV-godkjent AC-adapter på 12V DC, 500mA (millismpere)

DRIFTSTEMPERATUR
Dette produktet er konstruert for bruk i maksimum romtemperatur på 40 grader celsius.

ALLE LAND: Produktet må installeres i samsvar med de lokale og nasjonale elektriske koder.

PADRÕES: Este produto atende aos seguintes padrões.

Emissão De Interferência De Radiofrequência EN55022 Classe A

AVISO: Num ambiente doméstico este produto pode causar interferência na radiorrecepção e, neste caso, pode ser necessário que o utente tome as medidas adequadas.

Imunidade EN50082-1

Advertência: Este produto requer a utilização de cabos blindados para cumprimento dos standards de limites de emissão e imunidade. Se o produto for utilizado com cabos não blindados, o utilizador poderá necessitar de tomar medidas para correcção de problemas de interferência, por sua própria conta.

Segurança Eléctrica TUV-EN60950, UL1950, CSA 950

Laser EN60825

Este é um "PRODUTO CLASSE 1 LED"

SEGURANÇA

1 **PERIGO DE CHOQUE CAUSADO POR RAIO**
PERIGO: NÃO TRABALHE no equipamento ou nos CABOS durante períodos suscetíveis a QUEDAS DE RAIO.

2 NÃO BLOQUEIE AS ABERTURAS DE VENTILAÇÃO

Use somente o adaptador fornecido para alimentação elétrica do hub.

EUROPE - EU
Use um adaptador de corrente alternada com saída DC de 12V e 500mA em conformidade com as especificações da TÜV.

TEMPERATURA DE FUNCIONAMENTO
Este produto foi projetado para uma temperatura ambiente máxima de 40 graus centígrados.

TODOS OS PAÍSES: Instale o produto de acordo com as normas nacionais e locais para instalações elétricas.

ESTÁNDARES: Este producto cumple con los siguientes estándares

Emisión RFI EN55022 Clase A

ADVERTENCIA: en un entorno doméstico, este producto puede causar radiointerferencias, en cuyo caso, puede requerirse del usuario que tome las medidas que sean convenientes al respecto.

Inmunidad EN50082-1

ADVERTENCIA: Este producto exige cables protectores para ajustarse a las normas de emisión e inmunidad. Si se utiliza con cables sin protección, el usuario tendrá que correr con los gastos por las medidas a tomar en caso de problemas de interferencias.

Seguridad eléctrica TUV-EN60950, UL1950, CSA 950

Laser EN60825

Este es un "PRODUCTO DE DIODO LUMINISCENTE (LED) CLASE 1"

SEGURIDAD

1 **PELIGRO DE RAYOS**
ELIGRO: NO REALICE NINGUN TIPO DE TRABAJO O CONEXION en los equipos o en LOS CABLES durante TORMENTAS ELECTRICAS.

2 NO BLOQUEE LAS ABERTURAS PARA VENTILACION

La energía para el dispositivo central o "hub" debe provenir únicamente del adaptador.

EUROPE - EU
Utilizar un adaptador de corriente alterna autorizado TÜV de 12 voltios de corriente continua y 500 miliamperios.

TEMPERATURA REQUERIDA PARA LA OPERACIÓN
Este producto está diseñado para una temperatura ambiental máxima de 40 grados C.

PARA TODOS LOS PAÍSES: Monte el producto de acuerdo con los Códigos Eléctricos locales y nacionales.

STANDARDER: Denna produkt uppfyller följande standarder

Radiostörning EN55022 Klass A

VARNING: Denna produkt kan ge upphov till radiostörningar i hemmet, vilket kan tvinga användaren till att vidtaga erforderliga åtgärder.

Immunitet EN50082-1

VARNING! Denna produkt kräver skärmade kablar för att uppfylla standardkraven för emission och immunitet. Om den används med oskärmade kablar kan användaren vara tvungen att vidta åtgärder på egen bekostnad för att åtgärda störningsproblemet.

Elsäkerhet TUV-EN60950, UL1950, CSA 950

Laser EN60825

Detta är en "KLASS 1 LYSDIODPRODUKT"

SÄKERHET

1 **FARA FÖR BLIXTNEDSLAG**
FARA: ARBETA EJ på utrustningen eller kablarna vid ÅSKVÄDER.

2 BLOCKERA INTE LUFTVENTILERNA

Endast anslutningsenheten får vara kraftkälla till centralen.

EUROPE - EU
Använd en växelströmsanslutningsenhet licensierad av TÜV. Likström 12V, 500mA.

DRIFTSTEMPERATUR
Denna produkt är konstruerad för rumstemperatur ej överstigande 40 grader Celsius.

ALLA LÄNDER: Installera produkten i enlighet med lokala och statliga bestämmelser för elektrisk utrustning.

Appendix B

AT-MC105XL and AT-MC106XL Installation Guide Feedback

Please tell us what additional information you would like to see discussed in this guide. If there are topics you would like information on that were not covered in this guide, please photocopy this page, answer the questions and fax or mail this form back to Allied Telesyn. The mailing address and fax number are at the bottom of the page. Your comments are valuable when we plan future revisions of this guide.

I found the following the most valuable _____

_____

_____

_____

_____

I would like the following more developed _____

_____

_____

_____

_____

I would find this guide more useful if _____

_____

_____

_____

_____

Please fax or mail your feedback. Fax to 1-408-736-0100. Or mail to:
Allied Telesyn International, Corp.
c/o Technical Communications
960 Stewart Drive, Suite B
Sunnyvale, CA 94086 USA

PN 613-10800-00 Rev A

Appendix C

Technical Support Fax Order

Name _____

Company _____

Address _____

City_____State/Province_____

Zip/Postal Code _____Country_____

Phone_____ Fax_____

Incident Summary

Model number of Allied Telesyn product I am using _____

Firmware release number of Allied Telesyn product _____

Other network software products I am using (e.g., network managers)

_____

_____

Brief summary of problem _____

_____

Conditions (List the steps that led up to the problem.)_____

_____

_____

_____

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_____

Detailed description (Please use separate sheet)

Please also fax printouts of relevant files such as batch files and configuration files.
When completed, fax this sheet to the appropriate Allied Telesyn office. Fax numbers can be found on p age21.

Appendix D

Where To Find Us

For Technical Support or Service		
Location	**Phone**	**Fax**
Americas United States, Canada, Mexico, Central America, South America	1 (800) 428-4835	1 (918) 628-3222
Asia Singapore, Taiwan, Thailand, Malaysia, Indonesia, Korea, Philippines, China, India	(+65) 3815-613	(+65) 3833-830
Australia Australia, New Zealand	(61) 2-943-5111	(61) 2-9438-4966
France France, Belgium, Luxembourg, The Netherlands, Middle East, Africa	(+33) 1-60-92-15-32	(+33) 1-69-28-37-49
Germany Germany, Switzerland, Austria, Eastern Europe	(+49) 30-435-900-126	(+49) 30-435-70-650
Hong Kong	(+852) 2-529-4111	(+852) 2 529-7661
Italy Italy, Spain, Portugal, Greece, Turkey, Israel	(+39) 02-416047	(+39) 02-419282
Japan	(+81) 3-3443-5640	(+81) 3-3443-2443
United Kingdom United Kingdom, Denmark, Norway, Sweden, Finland, Iceland	(+44) 1-235-442560	(+44) 1-235-442680
Technical Bulletin Board Service	1 (425) 483-7979	
Technical Support Address	TS1@alliedtelesyn.com	
CompuServe	Go ALLIED	
FTP Server	Addres s :gateway.centre.com [lowercase letters] Login: anonymous [lowercase letters] Password: your e-mail address [requested by the server at login]	

For Information Regarding Allied Telesyn International, Corp.	
Allied Telesyn International, Corp. 19015 North Creek Parkway Bothell,WA 98011 Tel: 1 (425) 487-8880 Fax: 1 (425) 489-9191	**Allied Telesyn International, Corp.** 960 Stewart Drive, Suite B Sunnyvale, CA 94086 Tel: 1 (800) 424-4284 (USA and Canada) Fax: 1 (408) 736-0100
World Wide Web	http://www.alliedtelesyn.com