



CentreCOM™
AT-210T and AT-210TS
Micro Transceiver User Manual

Overview

The Micro Ethernet Transceiver Series of products are direct attach IEEE 802.3 and Ethernet Version 1.0 and 2.0 devices. ATI supports all common Ethernet media with Micro Transceivers for thin coax (10BASE2), UTP (10BASE-T) and FOIRL LAN systems. The transceivers support a single AUI that attach directly to the AUI 15 pin connection found on most Ethernet stations (DTEs). Direct AUI connection reduces cabling costs for the installer.

All ATI transceivers are equipped with LEDs, providing status and diagnostic information. LEDs make LAN installation and troubleshooting easy for the installer. An easily accessible, user selectable SQE Test switch (heartbeat) is also provided on all models. ATI uses quality product packaging for increased reliability. ATI shows a high level of confidence in the micro transceiver products with a 5 year warranty.

Preparation

An SQE Test switch (heartbeat) is available to provide IEEE 802.3 Ethernet SQE Testing. If required, place the SQE Test switch to the "ON" position. An illuminated LED indicates the SQE Test is enabled. If the DTE does not require an SQE Test, or if the DTE is a repeater, place SQE Test switch to "OFF". The SQE Test is disabled when the LED is off. Disable the heartbeat function by turning the SQE Test switch "OFF" when the Ethernet MAU is connected to a repeater to eliminate the possibility of excessive collisions.

Installation

The AT-210T or AT-210TS connects directly to a DTE or workstation AUI connector. The AT-210TS, the slim-line version, includes a connector extension for tight installations. Plug the transceiver into the 15 pin AUI connection on the DTE and slide the connector latch into place. Power on the DTE and verify that the power indicator is lit. Check to ensure the SQE Test setting is appropriate for equipment per the above requirements. Plug a UTP cable into the RJ45 receptacle located on the AT-210T transceiver. Check the Link LED to ensure equipment on the other end of link is operational. Stations will communicate if both local and remote transceivers' link LEDs are on. Four LEDs provide Link, SQE status, Polarity and Power information. If another 10BASE-T MAU is at the opposite end of the line, the UTP cabling must be crossed, i.e. TD+ and TD- signals must be swapped with RD+ and RD- signals respectively. If the polarity LED is lit, no polarity correction is occurring. If the polarity LED is off, the polarity of RD+ and RD- are being swapped internally by the transceiver. 26 to 22 AWG (0.4 - 0.6 mm) UTP cable in multi-wire cable with 100Ω impedance needed. IEEE 802.3 Specifications: 100m (328 ft.) maximum UTP cable link segment.

Vorbereitung

Fuer die Durchfuehrung eines SQE-Testes (Heartbeat) gem. IEEE 802.3 Ethernet steht ein entsprechender Schalter zur Verfuegung. Bei Bedarf kann dieser SQE Testschalter auf "ON" gestellt werden. Eine erleuchtete LED zeigt an, dass der SQE Test aktiviert ist. Leuchtet diese nicht, ist die Funktion deaktiviert. Wird der Heartbeat nicht benoetigt, oder ist das Endgeraet ein Repeater, ist die Stellung "OFF" zu waelen. Die "OFF" Stellung wird empfohlen, wenn die Ethernet MAU mit einem Repeater verbunden ist, um die Moeglichkeit uebermaessiger Kollisionen auszuschalten.

Installation

Der AT-210T/AT-210TS wird direkt mit dem AUI Anschluss des Endgeraetes oder der Workstation verbunden. Stecken Sie den Transceiver in die 15-Pin-Busche des Endgeraetes und lassen Sie den Stecker einrasten. Schalten Sie den Rechner ein und kontrollieren Sie die Poweranzeige. Ueberzeugen Sie sich davon, dass der SQE Testschalter Ihren Anforderungen entsprechend eingestellt ist. Stecken Sie jetzt den RJ45 Stecker des UTP Kabels in die dafuer vorgesehene Busche des AT-210T Transceivers. Vergewissern Sie sich, dass die Link LED die Einsatzbereitschaft auch des Geraetes am anderen Ende der Uebertragungsstrecke anzeigt. Die Stationen koennen miteinander kommunizieren, wenn die Dioden beider AT-210T Transceiver ordnungsgemaess arbeiten. Fuenf LEDs sehen Power, Link, Polarity und SQE Status Informationen vor. Ist ein weiterer AT-210T am anderen Ende der Leitung angeschlossen, muss das UTP Kabel gekreuzt werden, d.h. TD+ und TD- Signale muessen mit RD+ and RD- Signalen getauscht werden. Verkabelungsgrundlage ist ein 100 Ω UTP Kabel 22 bis 26 AWG (0.4 - 0.6mm). Die IEEE 802.3 Spezifikation begrenzt ein UTP Link Segment auf max. 100 m (328 ft.).

Allied Telesyn International, Corp. Limited Warranty

Allied Telesyn International, Corp. (ATI) warrants to the original consumer/purchaser that each of its products, and all components thereof will be free from defects in materials and/or workmanship for 5 years (for the Micro Transceiver series of Products) from the original date of purchase. Any warranty hereunder is extended to the original consumer/purchaser and is not assignable.

In the event of a malfunction or other indication of product failure attributable directly to faulty workmanship and/or materials, ATI will, at its option, repair or replace the defective products or components at no additional charge as set forth herein. Repair or replacement product will be furnished on an exchange basis and will be either reconditioned or new at the option of ATI. All replacement parts become the property of ATI. This limited warranty does not include service or repair damage to the product resulting from accident, disaster, misuse, neglect or modification of the product.

Service under this warranty may be obtained by returning the product to ATI, and only after receiving authorization by ATI by issuance of a Return Material Authorization (RMA) number, with shipping charges prepaid, in the original shipping container or like container, and with proof of date of purchase included with the returned product. The RMA number MUST be marked clearly visible on the outside of the shipping container. Any material returned without such RMA markings shall be rejected and returned to sender unopened. There shall be no warranty for either parts or labor after the expiration date of 5 years (for the Micro Transceiver Series of Products) from the original date of purchase, unless the original consumer/purchaser has purchased an Extended Warranty. Warranty beyond the fifth year is subject to the terms of the extended warranty program purchased.

Products will be returned to the consumer after repair or replacement has been completed and by the carrier and method of delivery chosen by ATI, to any destination within the United States of America. If the customer desires some other specific form of conveyance, or it is located beyond the U.S.A. borders, then the consumer shall bear the cost of the return shipment.

ATI MAKES NO EXPRESS OR IMPLIED WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXCEPT AS EXPRESSLY SET FORTH IN THIS WARRANTY. IN NO EVENT SHALL ATI BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, COSTS, OR EXPENSES ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE PRODUCT DELIVERED HEREUNDER.

Some governments do not allow the exclusion or limitation of incidental or consequential damages for consumer products, so the above limitation of exclusion may not apply to you.

U.S. FEDERAL COMMUNICATIONS COMMISSION

Note: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the 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 the 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.

CANADIAN DEPARTMENT OF COMMUNICATIONS

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Lé présent appareil numérique n'émet pas de bruits radio électriques dépassent les limites applicables aux appareils numériques de Classe A prescrites dans le règlement sur le brouillage radio électrique édicté par le ministère des Communications du Canada.

UNDERWRITERS LABORATORIES

Caution: U.L. listed for use in other Environmental Air Spaces in Accordance with Article 300-22 (c) of the U.S.A. National Electrical Code. (Product is not Plenum Rated.) These products have to be installed in accordance with Local and National Electrical Codes.

BESCHEINIGUNG DES HERSTELLERS/IMPORTEURS

Hiermit wird bescheinigt, dass der AT-210T Micro Transceiver in Uebereinstimmung mit den Bestimmungen der Vfg. 1046/1984 funk-entstoert ist. Der Deutschen Bundespost wurde das Inverkehrbringen dieses Geraetes angezeigt und die Berechtigung zur Ueberpruefung der Serie auf Einhaltung der Bestimmungen eingeraeumt. Von Benutzer zusammengestellte Systeme, die dieses Geraet beihalten, muessen den Bestimmungen von Vfg 1046/1984 entsprechen.

For more information on ATI products available today and in the future, contact your local ATI representative:

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