

User's Manual

Ethernet 10Base2 / 10BaseT Transceiver for Macintosh

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A. Check List

The following table show the accessories contained your purchasing: But these accessories vary with different vendors.

Part Number	E100	E110	E120
T-Connector	1	1	-
2M RG-58 Cable	Optional	Optional	-
2M UTP Wire	Optional	-	Optional
Self-Terminating T-Connector	Optional	Optional	-

B. Warnings

These equipments have been tested and found to comply with the limits for a Class A digital device. Pursuant to Part 15 of the FCC rules. This limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipments generate use and can radiate radio frequency energy and if not installed and used in accordance with the instructions may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If these equipment do cause harmful interference to radio or television reception which can be determined by turning the equipments off and on. The user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver.

- Connect the equipment into an circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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C. Introduction

The Apple Ethernet transceivers MAUs (Media Attachment Unit), for 10Base2 and 10Base-T, offer plug-and-play functionality to a standard thin coaxial or UTP Ethernet environments, whether you are connecting to an existing network or creating your own.

The E110 is a Thin Ethernet Transceiver while the E120 is a 10BaseT Ethernet Transceiver. The E100 is a combo one with auto-detecting the media is UTP or coaxial cable. All of them are designed for Apple computers needing to transfer Apple AUI ports to Ethernet 10Base2 or 10Base-T standard connection. For examples, Apple Power Macintosh 8100, 7100, 6100, Quatra 840, 950, 700, or Power Book 540,520 etc.

D. Specifications

This section introduces the features and specifications of the transceiver.

Part Number	E100	E110	E120
IEEE 802.3	10Base2/T	10Base2	10BaseT
Topology	Bus/Star	Bus	Star
Transfer Rate	10 Mbps		
Hardware Supported	Apple Macintosh, Quadra, Centris, LaserWrite IIG Ethernet LC Card		
AAUI Port	14-Pin AAUI male connector with 90 cm AAUI cable		
Connector	BNC/UTP	BNC	UTP
Max. Node/Seg	30/1	30	1
Max. Cable Length	200M/coaxial, 100M/UTP	200M	100M
LED	Power, Transmitting		
EMI/RFI	FCC Class A Approved		
Weight N.W.	160 g		
Weight G.W.	560 g		
Operating Temp.	0 to 50 °C		
Storage Temp.	-40 to 70 °C		
Operating Humidity	10% to 80%		
Storage Humidity	5% to 90%		

E. Installation

Step 1.

Power off the machine to which the transceiver will be attached.

Step 2.

Locate the Apple Ethernet port. On the rear panel of Macintosh platforms or LaserWrite IIG you could find the 14-pin AAUI connector.

Step 3.

Attach the AAUI 14-pin male connector of the Apple transceiver to the 14-pin female connector of your Apple machine. See Fig. E.1.

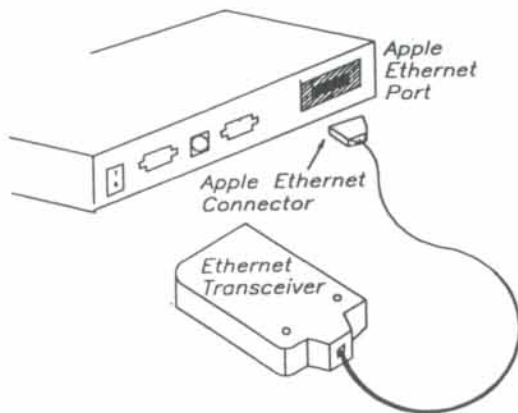


Fig. E.1

Following step 4A if install a BNC transceiver; step 4B if install a UTP one.

Step 4A.

The BNC type uses a BNC connector. Screw the plug of "Self-Terminating" T connector to the BNC connector and connect any one (or both) jacks of this "Self-Terminating" T to other thin cable. Refer to Fig. E.2.

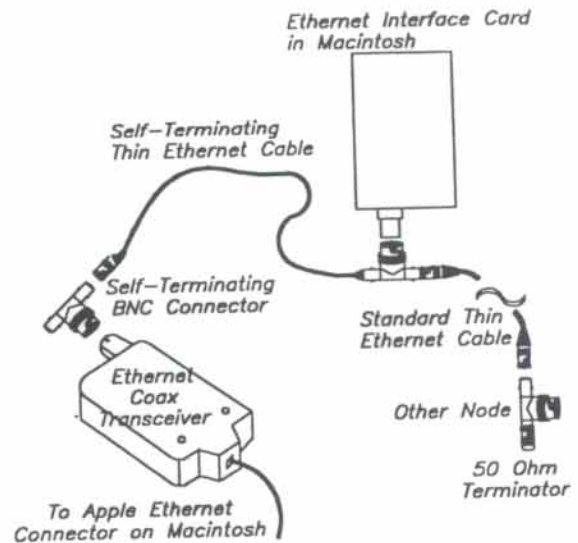


Fig. E.2

Step 4B.

The UTP type uses an RJ-45 Modular Jack. Just use an UTP wire with a RJ-45 plug at each end to connect the UTP one and a suitable port of a 10Base-T Hub. See Fig. E.3.

Step 5.

Power on the Apple machine. Then the installation is finished.

WARNING:

CONSULT WITH YOUR NETWORK SUPERVISOR BEFORE DISCONNECTING THE NETWORK CABLE. ASK OTHER USERS ON THE SEGMENT WHICH YOU WANT TO ADD YOUR NODE TO SAVE AND LEAVE THE NETWORK AVOIDING DATA CRASH.

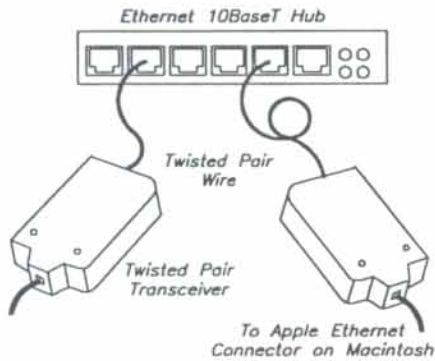


Fig. E.3

F. LED Indicator

There is two LEDs on the case. See Figure F.1.

- PWR (Green) LED:
The LED is "Light" when the transceiver is power on.
- TX (Yellow) LED:
The LED "Flashing" if the data is transmitting

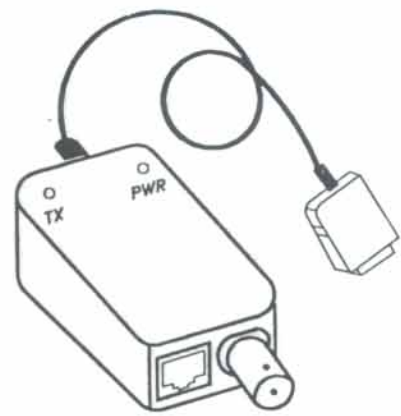


Fig. F.1

G. AAUI Connector

The AAUI is a 14-pin connector that is used in the Apple Ethernet Cabling System as a universal interface to the various external transceiver units (Media Attachment Units, MAUs).

The AAUI Female and Male Connectors are shown in Fig. G.1.

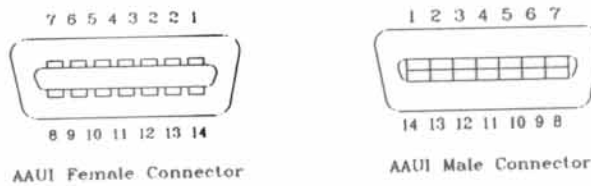


Figure G.1

The Apple AAUI Pin-outs are shown in Table G.1.

Housing	AAUI Pin	Circuit	Signal Name
1	7	+5V	Power
2	4	GND	Ground
3	5	CD+	Collision Detect +
4	6	CD-	Collision Detect -
5	2	RX+	Receive +
6	3	RX-	Receive -
7	9	TX+	Transmit +
8	10	TX-	Transmit -

Table G.1