

Ethernet Transceiver

FTX-A11/A12, FTX-B20/B21

Fiberdyne Labs, Inc.
Product Specification

These Fiberdyne transceivers provide a convenient interconnect option for Ethernet networks. You have two options for cabling: multimode fiber or unshielded, twisted-pair copper. These unit do not require an external power supply.

FTX-A11: Ethernet AUI to 10Base-FL Fiber-Optic Transceiver

FTX-A12: Ethernet AUI to 10Base-FL Fiber-Optic Transceiver, with Wall-mount Bracket

FTX-B20: Ethernet, Full-function, AUI to 10Base-T Transceiver

FTX-B21: Ethernet, Full-function, AUI to 10Base-T Transceiver, with Wall-mount Bracket

<i>Description</i>	<i>FTX-A11/A12</i>	<i>FTX-B20/B21</i>
Standard Compliance	IEEE Std 802.3 10Base-FL Media Adapter Unit (MAU)	IEEE Std 802.3 10Base-T Media Adapter Unit (MAU)
Data Interfaces	Adapter Interface Unit (AUI), DB15 male Fiber-optic, ST Connector	Adapter Interface Unit (AUI), DB15 male Copper, Twisted Pair, RJ-45 Connector
Data Transfer Rate	10 Mbps	10 Mbps
Transmit Distances	Multimode: 2 km	Twisted Pair: 100 meters
Indicators (LEDs)	Link On Transmit Receive Jabber Collision	Link On Transmit Receive Jabber Collision Reverse Polarity
Control Switch	Signal Quality Error (SQE)	Signal Quality Error (SQE)
Weight *	A11: 3.8 oz. A12: 4.8 oz.	B20: 3.0 oz. B21: 4.0 oz.
Dimensions *	A11: 3.1"L x 1.6"W x 0.7"H A12: 5.0"L x 4.0"W x 0.8"H	B20: 3.2"L x 1.7"W x 0.7"H B21: 5.0"L x 4.0"W x 0.8"H
Power	provided by AUI	provided by AUI

* Note: A12 is an A11 with the additional Wall-Mount Bracket. Similarly, the B21 uses the B20.

SQE function

When connected to DTE (Data Terminal Equipment), the MAU will activate the collision oscillator during the inter-packet gap time. This tells the DTE that the collision detect circuitry is functional. If this function is not wanted, or if the MAU is connected to a repeater, then the switch should be set to OFF.

Indications

Link On:	MAU receiver detecting adequate signal levels during link/idle pulses.
Transmit:	MAU transmitting data.
Receive:	MAU receiving data.
Jabber:	MAU transmitter is active for a time greater than 20 ms.
Collision:	Receiver and transmitter are active at the same time (normally off or blinking)
Reverse Polarity:	(B20/B21 only) twisted-pair signal polarity is reversed; MAU will compensate.