

TLC-1100

8-Port Ethernet Transceiver with AUI Network Port



The TLC-1100 is a direct replacement for the Milan MIL-800X Ethernet Transceiver. Like the MIL-800X, the TLC-1100 is a multi-port transceiver that conforms to Ethernet standard IEEE 802.3. It connects up to eight workstations locally or remotely through a full AUI port for connection to a 10Base5 Ethernet transceiver tap. The TLC-1100 can drive cable lengths up to 50 meters.

Local Mode

An external transceiver is not required. Allows eight workstations to communicate with each other.

Remote Mode

An external transceiver is required. Allows eight workstations to communicate with each other and the network.

Features

- Externally SQE selectable
- Externally Local and Remote selectable
- LEDs display TLC-1100 network activity at a glance.

LED Displays

SQE	Lit when SQE is enabled
REMOTE	Lit when in remote mode
OPTION 1,2	Not used
JABBER	Lit when jabbers occur
REMOTE COL	Lit when remote collisions occur
REMOTE RCV	Lit when receiving data from the network
LOCAL COL	Lit when local collisions occur
LOCAL RCV	Lit when receiving local traffic
SYSTEM	Lit when unit is operational
EXT. POWER	Lit when power is being received from a wall adapter
PORT 1 POWER	Lit when power is being received by port 1

Additional LEDs indicate port activity:

NETWORK PORT	Lit when data is being received on port
INDIVIDUAL PORT	Lit when data on port is transmitting

Specifications

Physical

Dimensions	8.5"H x 5.25"W x 1.0"D	
Materials	Lightweight aluminum alloy with satin-black finish.	

Transmitter

	Typical	Worst Case
Frequency Range	4-20MHz	5-15MHz
Input Impedance		
Differential	78ohm	76-80ohm

Transmitter Input

Input Voltage Range	200-1500mV	
Input Sensitivity	100mV	75-150mV
Startup Delay	50ns	100ns

Transmitter Output

Output Impedance	78ohm	76-80
Output Current	40mA	60mA
Output Voltage		
Differential	900mV	500mV
Symmetry	0.25ns	0.50ns

Collision

Output Frequency	10MHz	9-11MHz
Turn-on Delay	50ns	150ns
Turn-off Delay	250ns	300ns
Input Sensitivity	100mV	75-150mV

Power Requirements

From AUI on Port 1 Plus	
Power Required by MAU	200mA @ 12VDC

Power Supply

	Typical	Worst Case
External AC Adapter		
Input Voltage		
47-63Hz	120VAC	90-130VAC
Output Voltage		
VAC 600mA	16.5V	14.5V

Switch Configuration

Switches on the read of the unit allow you to enable SQE (heartbeat) and to set the unit for Local or Remote operation.

AUI Network Port

Connector 15-position, D-sub receptacle with protective ground

Signals	Pin	Signal
	1	Open
	2	Control In - A
	3	Data Out - A
	4	Open
	5	Data In - A
	6	Voltage
	7	Open
	8	Open
	9	Control In - B
	10	Data Out - B
	11	Open
	12	Data In - B
	13	Voltage (+12V Power Output)
	14	Open
	15	Open

Local Ports

Connector 15-position, D-sub plug with protective ground

Signals	Pin	Signal
	1	Open
	2	Control Out - A
	3	Data In - A
	4	Open
	5	Data Out - A
	6	Voltage Common*
	7	Open
	8	Open
	9	Control Out - B
	10	Data In - B
	11	Open
	12	Data Out - B
	13	Voltage Plus (+12V Power Input)
	14	Open
	15	Open