



iSBC 530 TELETYPEWRITER ADAPTER

Compact, easily mounted package with standard connectors

General purpose RS232C to 20 mA current loop interface

Compatibility with iSBC 80 and iSBC 86 Single Board Computers

Jumper selectable RS232C data set or data terminal configuration

Compatibility with iSBC 80 combination boards

Interface opto-isolated for high noise immunity

The iSBC 530 Teletypewriter Adapter provides a compact and flexible means for interfacing Intel iSBC 80 and iSBC 86 Single Board Computers, iSBC combination memory and I/O expansion boards, and most RS232C compatible equipment to teletypewriters and other 20 mA current loop equipment. The iSBC 530 converts RS232C signal levels to an optically isolated 20 mA current loop interface. The iSBC 530 provides signal translation for transmitted data (Txd), received data (Rcd), and a teletypewriter paper tape reader relay. The RS232C interfaces are jumper selectable, and may be configured to accept signals from an RS232C data terminal or data set. Threaded holes have been incorporated in the iSBC 530 for ease in system chassis design and multiple units may be mounted together to support multiple serial channels. The units are mountable in any of three planes. When used with an iSBC Single Board Computer, power is provided to the iSBC 530 directly through its RS232C connector. Power may also be provided through either of two auxiliary power connectors for standard current loop interfacing. The noise immunity benefits of total inter-system power isolation may be achieved through the use of both auxiliary power connectors on the iSBC 530.

8



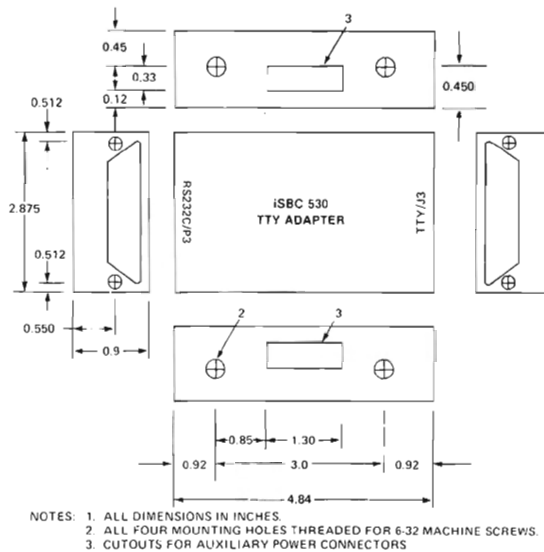


Figure 1. iSBC 530 Dimensions

SPECIFICATIONS

Interface Characteristics

RS232C Side

RS232C signal levels in/out¹

TTY Side

20 mA optically isolated current loop

Note

1. RS232C data set ready line controls 20 mA paper tape reader relay driver line.

Mating Connectors

RS232C	Cinch	DB-25S	
	ITT Cannon	DB-25S	
20 mA (TTY)	Cinch	DB-25P	
	ITT Cannon	DB-25P	
Auxiliary power	AMP	Connector	87159-7
		Pin	87023-1
		Polarizing key	87116-2
	Molex	Connector	09-50-7071
		Pin	08-50-0106
		Polarizing key	15-04-0219

Note

1. Pins from a given vendor may only be used with connectors from the same vendor.

Physical Characteristics

Width — 2.876 in. max (7.31 cm)

Height — 4.850 in. max (12.32 cm)

Depth — 0.920 in. max (2.34 cm)

Weight — 9 oz (255.4 gm)

Electrical Characteristics

Power connectors for ground, +12V and -12V, are jumper selectable. Power may be provided via 25-pin RS232C connector or via two separate auxiliary power connectors. Auxiliary connectors allow total power system isolation at iSBC 530 opto-coupler interface.

Power Requirements

$V_{DD} = +12V \pm 5\%$

$V_{AA} = -12V \pm 5\%$

$I_{DD} = 98 \text{ mA max}$

$I_{AA} = 98 \text{ mA max}$

Environmental Characteristics

Operating Temperature — 0°C to 55°C

Reference Manuals

None supplied.

Reference manuals are shipped with each product only if designated SUPPLIED (see above). Manuals may be ordered from any Intel sales representative, distributor office or from Intel Literature Department, 3065 Bowers Avenue, Santa Clara, California 95051.

ORDERING INFORMATION

Part Number	Description
SBC 530	Teletypewriter adapter