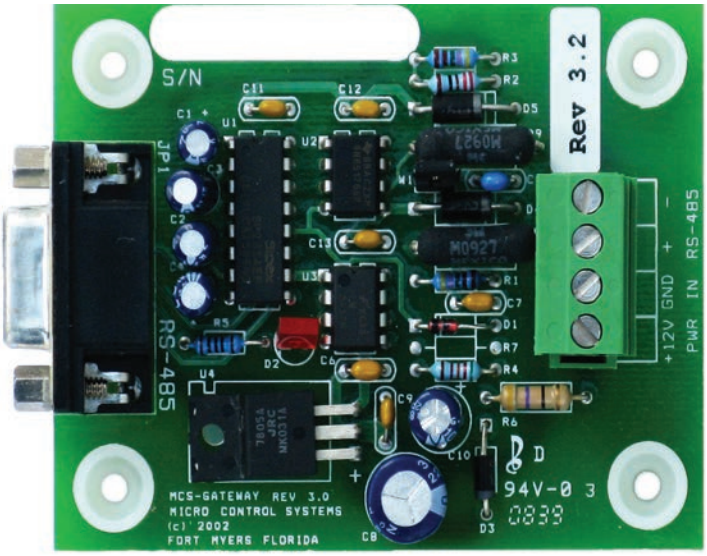
MCS-485-GATEWAY
Description & Specifications

RoHS Compliant

File No: E169780



Part # **MCS-485-GATEWAY**

Specifications

Package Dimensions:
Width .....2.50”
Length.....3.47”
Height .....1.04”
Mounting Holes.....4 holes using #6 screws through nylon collars at corners of board
RS-485 Connection .....4 pole 5mm removable connector block with +12V, GND, RS-485 (+) & RS-485 (-)
RS-232 Connection .....9 pin female Sub-D
Baud Rate (Standard).....19,200 baud
Power Required.....60mA @ 12vdc
Operating Temperature.....-40°F to +175°F (-40°C to +80°C)
Operating Humidity.....0-95% Non-Condensing
Storage Temperature.....-40°F to +175°F (-40°C to +80°C)

Description

The **MCS-485-GATEWAY** is a communications bridge between the signal levels and protocols of RS-485 and RS-232. It is primarily intended for establishing half-duplex, 2-wire communication between MCS micro controllers and a local PC, MODEM or **MCS-ETHERNET**, either stand alone or as part of a network.

Without the use of repeaters, the MCS-485-GATEWAY is capable of reliable RS-485 communication over 5000 feet using #24 AWG shielded cable with up to 50 additional devices connected to the line. Four conductor shielded cable should be used to provide +12vdc and ground in addition to the RS-485 (+) and RS-485 (-) data lines. +12vdc may be obtained by any device connected to the cable.

The MCS-485-GATEWAY supports a baud rate of 19.2 Kb/sec as standard. Other baud rates may be achieved by soldering a resistor in the R7 location on the PC board according to the following table:

Baud Rate (Kb/sec)	R7 (KW)
19.2	Open
38.4	52.3
57.6	26.1
115.2	10.5

The MCS-485-GATEWAY contains a R-C termination network which is user selectable by jumper if the device is at the end of the line. A visual indication of the communication condition is provided by a LED which turns on when the attached MCS micro controller is transmitting.

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