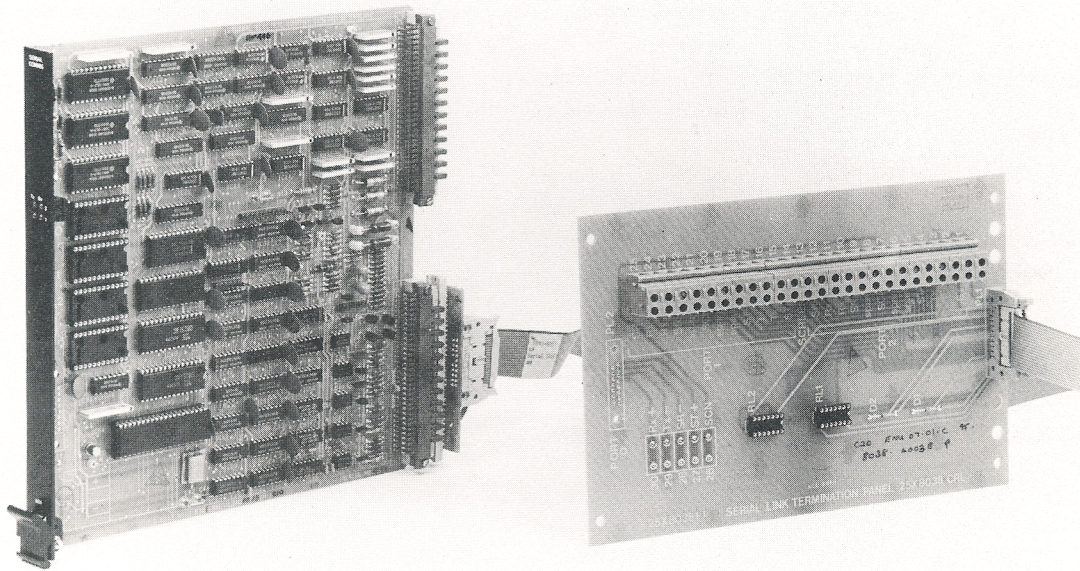


SERIAL COMMUNICATIONS 8845 4201



Description

The Serial Communications Module has been designed for application in 300 series controller systems where additional serial links are required over and above those built into the controller.

This Module plugs into the controller fast I/O spaces and provides two additional ports per 8845 module. These ports operate in 20mA current loop with ESP protocol and are set up by a program in the host controller.

Features

- Handshake Flags are available for both ports to ensure message received and acted on before transmitting.

- Includes serial link statistics and automatic fault diagnosis for quick commissioning and minimum down time.
- Automatic data checking 16 bit CRC with automatic retry for trouble free running.
- Several 8845 modules in the same controller provide a large number of serial links for very large powerful systems.
- Suitable for multidrop tributaries.

Specification

Number of ports

Two, each configurable as either tributary or point to point control.

Port type

20mA current loop working using standard ESP protocol.
2 wire or 4 wire operation.
Automatic data checking 16 bit CRC with automatic retry.

Application

Data table exchange with any GEM 80 controller.

Signalling rate

User adjustable 110, 300, 600, 1200, 2400, 4800, 9600 bit/s.

I/O capacity

31 input and 31 output words for both ports in any combination.

Handshake

Available on both ports allows one scan after message received before transmitting.

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Timeouts

User selectable either standard or long.

Power Consumption From Host Controller

1.3A @ +5V
40mA @ +15V
20mA @ -15V
plus 20mA at $\pm 15V$ for each
20mA current source used.

Dimensions

233mm high 220mm deep 18mm
wide. Occupies one slot width of
fast I/O space.

Temperature

0 to 60°C operating
-20 to 70°C storage

Humidity

10 to 90°C non condensing.

Ordering Codes

Serial communications equipment
comprising module, backplane,
termination panel and 2 metre
ribbon cable with connectors
8845-4201

Additional Information

If you require any further information
or wish to discuss an application in
detail, do not hesitate to contact our
GEM80 Representative.



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