TRUSTED

Product Data Sheet

T8151B

Communication Interface Module

ETHERNET INTERFACES	APPLICATION SERIAL PORTS	SERIAL PORTS 1 AND 2	SERIAL PORTS 3 AND 4
2	**4 isolated ports**	**RS232, RS422 or RS485**	**RS422 or RS485**

ICS Triplex T8151B is a communication interface for a Trusted controller installation. It provides two Ethernet interfaces and four isolated application serial ports, with RS232, RS422 or RS485 available on ports 1 and 2 and RS422 or RS485 on ports 3 and 4. A separate isolated RS232 connection supports diagnostics.

01 TECHNICAL DATA

Ethernet interfaces	2
Application serial ports	4 isolated ports
Serial ports 1 and 2	RS232, RS422 or RS485
Serial ports 3 and 4	RS422 or RS485
Diagnostic interface	Isolated RS232
Processor architecture	Motorola PowerPC
Boot code memory	EPROM
Operating firmware storage	Flash memory
Maximum interfaces per system	4
Power feeds	Dual 24 V DC backplane feeds

02 ADDITIONAL PRODUCT DATA

Intermodule bus redundancy	Triplicated
Intermodule receive voting	2-out-of-3
Rear connector	78 + 2 positions, DIN 41612 type M
Pre-revision-C Ethernet	10Base2 or 10BaseT
Revision-C-onward Ethernet	10/100BaseT

03 PRODUCT FUNCTION

The module uses a Motorola PowerPC processor, EPROM boot code and flash-resident operating firmware. It connects to the triplicated Trusted Intermodule Bus with 2-out-of-3 receive voting and receives dual 24 V DC feeds through the backplane. Ethernet media depend on hardware revision: earlier units use 10Base2 or 10BaseT, while revision C onward supports 10/100BaseT.

04 SYSTEM COMPATIBILITY

Choose the physical mode separately for each serial connection. Ports 1 and 2 offer RS232, RS422 or RS485, whereas ports 3 and 4 offer RS422 or RS485; preserve the correct cable assembly and wiring for the selected mode. Identify the Ethernet hardware revision before selecting media and speed.

05 REFERENCE

ICS Triplex T8151B-official; applicable product and connection sections.

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