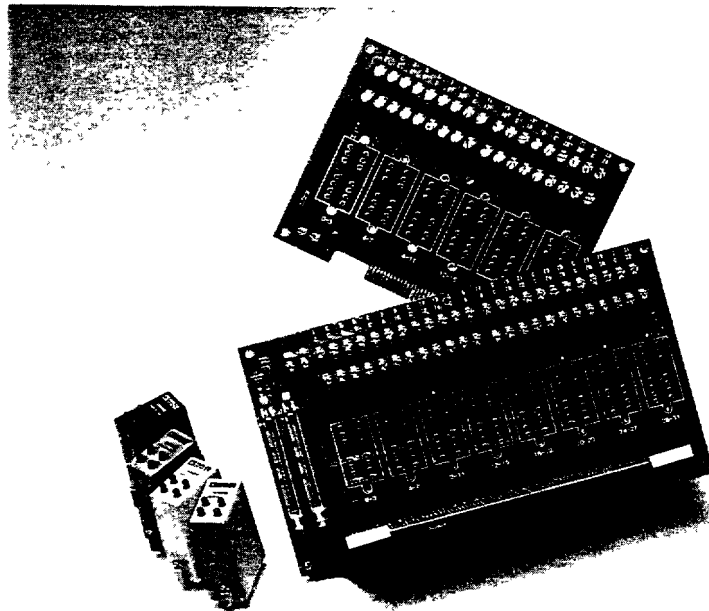


24 and 32 Channel Digital I/O Subsystems

DB-24/32 DMB-32/PULSE

Features

- Easy Interface to High-Level Signals and Loads
- 2500Vac Optical Isolation
- Wide Selection of I/O Modules
- 4 Channel Modularity
- Bussed and Multiplexing Backplanes
- Easily Rack Mounted



The DB-24/DB-32 and DMB Digital I/O Subsystems provide sockets for up to 6 or 8 plug-in solid-state relay modules, which provide the interface between external digital inputs and outputs and the TTL signal levels supported by the digital I/O ports of the RTI Series, μ MAC Series or 6B50 products. Each module handles four channels of identical levels, providing up to 24 or 32 channels of isolated digital I/O. The state of each input or output can be observed from the four LEDs on each module.

The DB-24 is recommended for use with the RTI-817, RTI-820, RTI-1267, μ MAC-6000, μ DCS-6000, μ MAC-1050 and 6B50. The DB-32 is recommended for use with the RTI-217. The DMB-32 and DMB-PULSE can be used with the μ MAC-1050, μ MAC-6000 and μ DCS-6000.

The DB-24 and DB-32 connect the modules to the host interface directly through a parallel interface. The DMB-32 interfaces via an address and data bus that allows multiple subsystems to be attached on the bus for high digital point count applications.

The DMB-PULSE uses the same bus as the DMB-32 and provides 16 digital I/O and 15 Pulse I/O channels. Up to 6 of the Pulse I/O channels can be used for frequency measurement and 3 can be used for Activate-on-Event functions. All 15 channels can be used for pulse output or event counting.

DB-24/32, PULSE

QUAD INPUT/OUTPUT MODULES

Output Modules				
Model	Range	Turn-On Time	Turn-Off Time	Output Current
OA240QA	12-280V ac	1/2 Cycle	1/2 Cycle	3A*
OD60Q	5-60V dc	1000µs	750µs	3A*

*Per channel at 20°C ambient

Input Modules				
Model	Range	Turn-On Time	Turn-Off Time	Output Current
ID16FQ	4-16V dc	50µs	100µs	45mA*
ID32Q	10-32V dc	5ms	5ms	25mA
	15-32V ac			
IA120QA	90-140V ac	20ms	30ms	11mA
	90-140V dc			
IA240QA	180-280V ac	20ms	30ms	7mA
	180-280V dc			

*15mA at 5V

BACKPLANES			
	DB-24	DB-32	DMB
No. of Digital I/O points	24	32	32 ¹
Common-Mode Voltage	4000V rms Input to Output(Isolation)	*	*
Power Requirements	+5V @ 50mA per Quad Module (Total 300mA max)	+5V @ 50mA per Quad Module (Total 400mA max)	+5V @ 50mA per Quad Module ²
I/O Connector	50-Pin Edge Connector	*	50 pin connector
Physical Dimensions	8 0" x 6 0" x 3 9" (with Modules Installed)	10 2" x 6 2" x 3 9"	11" x 6 5" x 3 9"
Operating Temperature Range	-30°C to +70°C	*	*

*Same as DB-24

1 The DMB-PULSE has 16 digital I/O points and 15 pulse I/O points

2 The DMB-32 consumes 500mA max., the DMB-PULSE consumes 750mA max

Ordering Information

DB-24
24 Channel Digital Subsystem

DB-32
32 Channel Digital Subsystem

DMB-32
32 Channel Digital Subsystem (Multiplexed)

DMB-PULSE
Pulse I/O Logic Board

DMB-32BP
DMB Backplanes for DMB-PULSE (required)

Quad Solid State Relay Modules

OA240QA
240Vac Outputs

OD060Q
60Vdc Outputs

IA120QA
120Vac Inputs

IA240QA
240Vac/dc Inputs

ID32Q
32Vdc Inputs

ID16FQ
16Vdc Inputs (high speed response)

Interfaces

AC1585-10
DB-24 to RTI-800/815 Interface

AC1585-9
DB-24 cable to RTI-817/820/1267, µMAC-1050/6000, µDCS-6000, 6850, 3'(9m)

CAB-12
DB-32 cable to RTI-217, 5'(1.5m)

CAB-02
DMB cable to µMAC-1050/6000, µDCS-6000, 3'(9m)

Mounting Kits

RM-02
Accepts 2 DB-24 or STB Panels, DMB

RM-03
Accepts SB-01, µMAC-1050 and DB-24

6