SPECIFICATIONS

VMEbus Interface:	Data Transfer bus: D08(O), D08(EO), D16 OR D32. Address bus: A16, A24 OR A32. The module installed in the 73A-851 may act as a bus master or slave or both. VMEbus monitor modules that are neither masters nor slaves on the VME bus are not supported by the 73A-851. The module installed in the 73A-851 must not have a bus arbiter (can not be used in VXIbus slot 0), and must not drive SYSCLK (P1-A10). The module installed in the 73A-851 may be an interrupter or interrupt handler, but not both, on any given interrupt level. The module may be an interrupter on one level and an interrupt handler on another level. If the installed module has bus master capability, the 73A-851 converts the module's bus request protocol to the Fair Requestor [the Request Or No Request (RONR)] protocol specified by the VXIbus Specification. The installed module must generate bus requests on a single bus request level.
Triggering:	VXIbus TTL trigger protocol synchronous, asynchronous, and start/stop are supported. TTL semi-synchronous protocol is not supported. VXIbus ECL trigger protocol synchronous, asynchronous, and start/stop are supported. ECL semi-synchronous protocol is not supported.
Number of Slots:	One slot is required if the installed module is a VXIbus module. Two slots are required if the installed module is a VME module and access is needed to signals on module connector P2 rows A and C. The second slot is used to mount a front panel containing connectors that allow user access to the signals on module rear connector rows P2-A and -C.
Power Requirements:	All required dc power is provided by the Power Supply in the VXIbus card cage.

Voltage:	+5 Volt Supply:	4.75 V dc to 5.25 V dc.
	+24 Volt Supply:	+23.5 V dc to +24.5 V dc.
	-24 Volt Supply:	-23.5 V dc to -24.5 V dc.
Current (Peak Module, I_{PM}):	With no VME or VXI module installed:	
	5 volt supply:	0.8 A
	+24 volt supply:	0 A
	-24 volt supply:	0 A
	+12 volt supply:	0 A
	-12 volt supply:	0 A
	-5.2 volt supply:	90 mA
	-2.0 volt supply:	90 mA
Current* (Peak Module, I_{PM}):	5 volt supply:	5 A
	+24 volt supply:	0 A
	-24 volt supply:	0 A
	+12 volt supply:	30 mA
	-12 volt supply:	30 mA
	-5.2 volt supply:	90 mA
	-2.0 volt supply:	90 mA
Current* (Dynamic Module, I_{DM}):	5 volt supply:	25 mA ptp
	+24 volt supply:	0 A
	-24 volt supply:	0 A
	+12 volt supply:	19 mA ptp
	-12 volt supply:	27 mA ptp
	-5.2 volt supply:	0 A
	-2.0 volt supply:	0 A

* The peak module current and dynamic module current depend on the power requirements of the module installed in the 73A-851. The figures shown were measured with a Motorola MVME/21 microprocessor module installed in the 73A-851.

Cooling:

Provided by the fan in the VXIbus card cage. The air flow required to cool the 73A-851 and the pressure drop across the 73A-851 depend on the power requirements and component heights of the module installed in the 73A-851. The following cooling figures are for a Motorola MVME/21 microprocessor module installed in the 73A-851:

Less than 10°C temperature rise with 2.16 liters/sec of air at a pressure drop of 0.152 mm of H_2O.

Temperature:

-10°C to +55°C, operating (assumes ambient temperature of 55° and airflow to assure less than 10°C temperature rise).
-40°C to +85°C, storage.

Humidity:	Less than 95% R.H. non-condensing, -10°C to +30°C. Less than 75% R.H. non-condensing, +31°C to +40°C. Less than 45% R.H. non-condensing, +41°C to +55°C.
Radiated Emissions:	The 73A-851 provides shielding for the installed VME or VXIbus module. Compliance with the VXIbus Radiated Emissions specifications must be verified by the user.
Conducted Emissions:	The 73A-851 provides ac isolation from the dc power busses on the VXIbus backplane. Compliance with the VXIbus Conducted Emissions specifications must be verified by the user.
I/O Connections:	Option 002 only: Two DC37-S connectors (required for use with Option 73A-851-002).
Module Envelope Dimensions:	VXIbus C size. 262 mm x 353 mm x 30.5 mm (10.3 in x 13.9 in x 1.2 in)
Dimensions, Shipping:	When ordered with a CDS card cage, this module will be installed and secured in one of the instrument module slots (slots 1 - 12). When ordered alone, the module's shipping dimensions are: 406 mm x 305 mm x 102 mm. (16 in x 12 in x 4 in).
Weight:	1 kg. (2.13 lb).
Weight, Shipping:	When ordered with a CDS Card cage, this module will be installed and secured in one of the instrument module slots (slots 1-12). When ordered alone, the module's shipping weight is: 1.3 kg. (3 lb).
Mounting Position:	Any orientation.
Mounting Location:	Installs in an instrument module slot (slots 1-12) of a C or D size VXIbus card cage. (Refer to D size card cage manual for information on required adapters.)

Equipment Supplied:

1 - 73A-851 Adapter Module.

2 - Captive Screws

Optional Equipment:

Options:

Option 001: Required when installing a B size VXI module in the 73A-851:

2 - Ribbon Cable Assembly (Part # 91100-85103).

3 - Jumper Blocks (Part # 45020-98136).

Option 002: Used when installing a 6U size VME module in the 73A-851 that requires access to P2 connector, rows P2-A and -C; includes separate removable front panel:

1 - Ribbon Cable Assembly (Part # 73A-851-002)

Option 003: Required when installing a 3U VME module or an A size VXI module in the 73A-851:

1 - A Size Adapter (Part # 73A-851-003)