Racal Instruments
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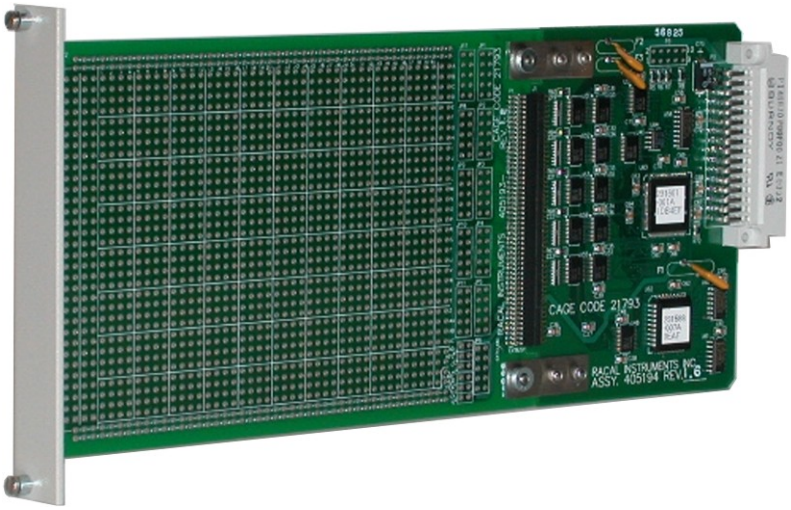
PRODUCT INFORMATION

Prototyping I/O Plug-in Module Model 1260-700



- **88 TTL I/O Lines Usable as Either Digital Inputs or Outputs**
- **Two-Piece "Open Architecture" Design Allows the Creation of User Plug-ins**
- **Prototyping Kit Allows Breadboarding of Custom Designs**
- **200 kHz VXI Data Rate**
- **Synchronous, Asynchronous and Mixed Operating Modes with 2-wire Programmable Handshaking**
- **Adapt-a-Switch® Plug-in Design for VXIbus or GPIB Operation**

The 1260-700 is a prototyping plug-in with 88 digital I/O lines for the Adapt-a-Switch® platform. The 1260-700 installs easily into the Adapt-a-Switch VXIbus Carrier, Model 1260-100, or the 1256 GPIB Switching Mainframe. Please refer to the 1260-100 or 1256 data sheet for specifications and product features.

The 1260-700 uses a modular approach to achieve maximum flexibility. This prototyping module includes a connectorized interface section, which provides connection to either the VXIbus Carrier or the GPIB switching mainframe platform, in addition to 88 channels of bi-directional digital I/O, plus fused +5VDC power. When installed in a carrier, the 1260-700 has fused +12V and +24V available as well. Also included is a prototyping kit, which includes a prototyping card with 0.1 x 0.1 inch prototyping grid, a connector to the interface section, and blank panel hardware. The prototyping grid has a ground bus and two uncommitted buses, which may be jumpered to either an internal or external power supply.

The 1260-700, prototyping module, utilizes an open-architecture design. The pinout of the interface section and the layout of the "user-defined" section are provided so that custom plug-in boards may be designed. For example, a user-defined custom switch card, Analog to Digital Converter (ADC) card, or Digital to Analog Converter (DAC) card may be substituted for the prototyping area.

In order to create a custom connector interface, the user is able to punch the blank front panel. Optionally, the 1260-700 may be ordered with front panel cutouts for either a 64-pin or a 160-pin right angle DIN connector.

Each 8-bit digital I/O port is configurable as an input or an output and can be individually controlled in either asynchronous or synchronous mode.

The module's digital I/O has a two-wire handshake mode available for the control of synchronous I/O transactions. Each handshake line can be programmed as either active high or active low providing a flexible interface with user signals.

The Model 1260-700 is programmable in several operating modes, and data may be manipulated in hex, decimal, or binary. Memory is available on the 1260-100 VXIbus Carrier or the 1256 Mainframe allowing buffered I/O operations. Data may be output synchronously in counted bursts of up to 2 billion cycles or continuously.

The Adapt-a-Switch series includes VXIp*lug&play* support for WIN95/98/ME/NT/2000/XP frameworks, including drivers for LabWindows/CVI and LabVIEW.

Model 1260-700 SPECIFICATIONS

INPUT/OUTPUT

Output Voltage	TTL
Vout (high)	≥3.8VDC@ -6mA
Vout (low)	≤0.33VDC@ 6mA
Input Voltage	**TTL**
Vin (high)	≥2VDC
Vin (low)	≤0.8VDC
Vin (max)	5.5VDC

Available I/O Channels
88 Bi-directional TTL I/O

Configuration
I/O lines selected as either input or output on a byte basis

Data Rate (VXIbus only)
Static to 200 kHz (nominal)

Burst Mode
1 to 2 Billion cycles or continuous

Channel Synchronization
Asynchronous, Synchronous or Mixed (Synchronous and Asynchronous)

Synchronous Trigger Handshake Polarity
User Programmable

Synchronous Busy Handshake Polarity
User Programmable

Adapt-A-Switch® Plug-in INTERFACE DATA

Cooling
See 1260-100 and 1256 cooling data

Power Requirements
+5 VDC at 2.5 A maximum with all channels sourcing maximum loads

ENVIRONMENTAL DATA

Temperature
Operating: 0 ° C to 55 ° C
Storage: -40 ° C to 75 ° C

Relative Humidity
85% ±5% non-condensing at <30 ° C

Altitude
Operating: 10,000 ft.
Non-Operating: 15,000 ft.

Shock
30 g, 11 ms, 1/2 sine wave

Vibration
0.013 in. (pk-pk), 5-55 Hz

Bench Handling
4-inch drop at 45 °

EMC

Emissions
EN55011A with limits in accordance with EN50081-1

Immunity
IEC801-2,3,4 with limits in accordance with EN50082-1

Safety
EN61010-1

RELIABILITY

MTBF
>100,000 hrs. (MIL-STD-217E)

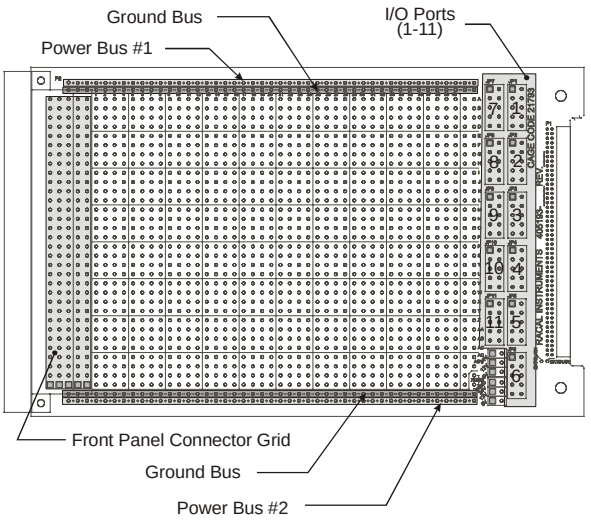
MTTR
<5 min.

MECHANICAL

Weight
3 oz. (0.093 kg)

Dimensions
4.5" H x 0.75" W x 9.5" D

Front Panel I/O Interface Connector
Blank front panel, 64-pin IDC or160-pin DIN Connector
Note: Mating connector not included.



User Prototyping Area Layout

ORDERING INFORMATION

Model	Description	Part Number
1260-700	Prototyping Plug-in Module (Includes blank front panel)	407827
405194	1260-700 Prototyping Interface (Interface only, no prototyping area)	405194
405193	Spare User Prototyping Board (Includes interface connector)	405193
602559-000	Spare Prototyping Board interface connector	602559-000
407830-001	Blank Front Panel kit	407830-001
407830-002	64-Pin DIN Connector Front Panel kit	407830-002
407830-003	160-Pin DIN Connector Front Panel kit	407830-003
602004	64-Pin DIN IDC Connector	602004
602159-064	64-Pin DIN Crimp Connector Body	602159-064
602159-900	DIN Crimp Pins for 64-Pin Connector Body	602159-900
407664	160-Pin DIN Connector Kit with Pins	407664
407809-001	160-Pin DIN Cable Assembly, 6ft, 24AWG	407809-001

Notes:

One Option 01T must be ordered per VXIbus system.

Mating connector is not included.

CE The CE Mark indicates that the product has completed and passed rigorous testing in the area of RF Emissions, Immunity to Electromagnetic Disturbances and complies with European electrical safety standards.

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