

**Product Datasheet 7**

**Features**

- General purpose access to all E series DAQ card signals via front panel BNC and/or D Type connectors
- DIO channels can be used to switch upto 8 onboard relay contacts
- Two rear panel IEC sockets can also be switched under DIO/relay control
- Integral 5V/3.5A & 12V/1A DC PSU with front panel PSU access
- Can be used with a range of low cost proprietary temperature & pressure sensors for general purpose instrumentation measurements
- Plugs directly into E series range of DAQ cards via rear panel mounted 68- pin (male) connector
- All analogue input channels are configurable (via internal links) for a wide range of pull-up/ pull-down and divider configurations
- Default signal conditioning settings for use with a range of temperature & pressure sensors (via BNC connectors)
- Opto-isolated input drive voltage 0/5V to 75V DC
- 2K2 opto-isolator input resistor per channel.
- Input opto-isolation 2500V rms (minimum)
- Digital channels can be connected as inputs or outputs and are provided with link selectable opto-isolation and buffering in either direction. Front panel LED's indicate DIO channel status
- Spare IC positions provided for designers additional components



**Description**

A versatile, low cost, general purpose Test, development or Instrumentation unit for direct connection to the National Instruments E series (68-pin) range of Multifunction cards. Digital inputs can be connected via the N/O connection and onboard opto-isolation, directly to the 68 pin connector. For engineers and students who are involved in

developing test or instrumentation systems, and who want to use a ready-made hardware interface solution. Designed to be easy-to-use, and quickly configured via onboard jumper links. The E68Mx is mounted in a strong, durable ABS enclosure with an easily detachable lid giving access to onboard links & components etc.

**Specifications**

**Connector Interface**

Standard 68 way (male) connector, will connect directly to a suitable 68 way DAQ cable. Pin compatible with all NIDAQ 'E' series, 68 pin DAQ cards.

**Power supply**

5V/3.5 amps & 12V/1 amp DC

**Mains input voltage**

115V/240V AC 50 Hz

**Operating temp range**

0-70°C

**Relay contact rating**

10 amp (2.5 amp PCB tracking). 5 amp IEC sockets.

**Dimensions**

Dimensions approx 260mm (D) 290mm (W) 103mm (H) (exc feet)

**Order code**

**E68MxUnit**

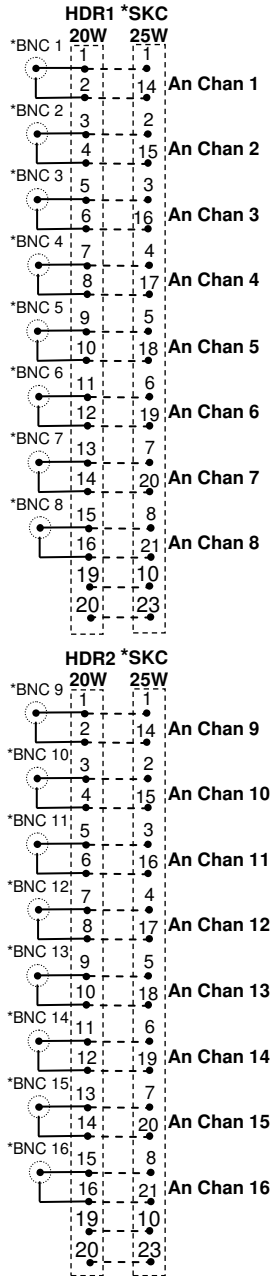
General purpose test & instrumentation unit, with access to all 68 pins of E series DAQ cards, integral PSU and DIO switched relay contacts including two relay switched rear panel IEC sockets.

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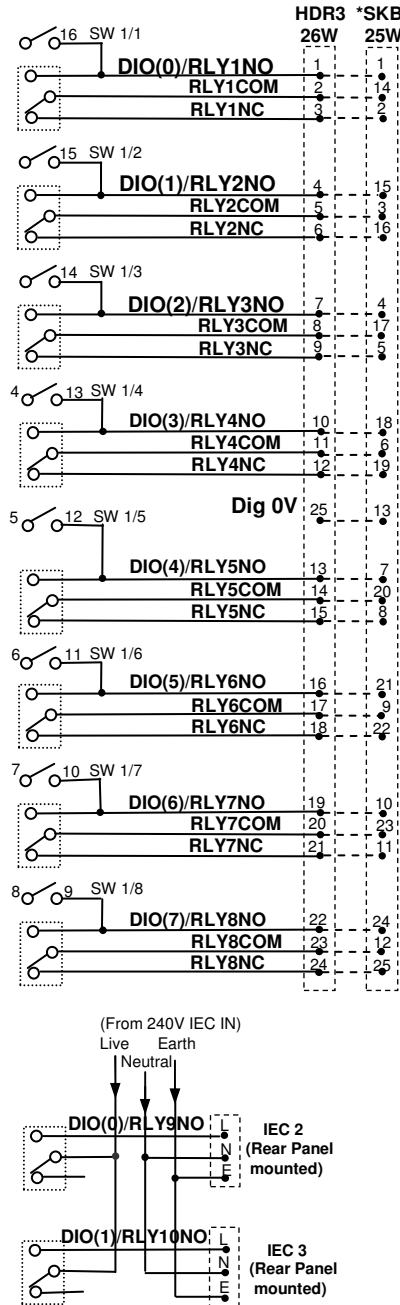
**Connection details**

External connections to the unit are shown below:

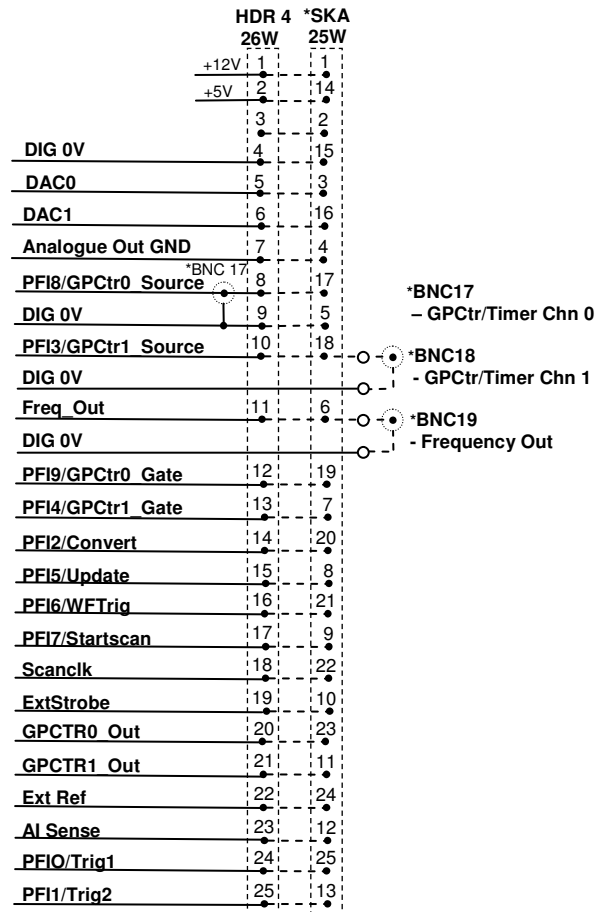
**Analogue channels**



**DIO/Relay channels**



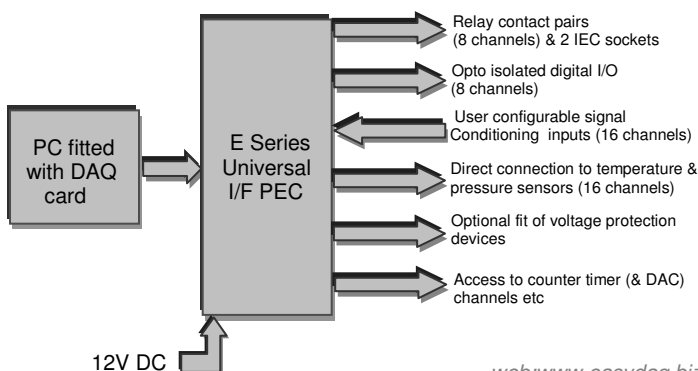
**Other analogue/signal channels**



**Rear panel:**



**Functional diagram:**



**Default channel configuration:**

