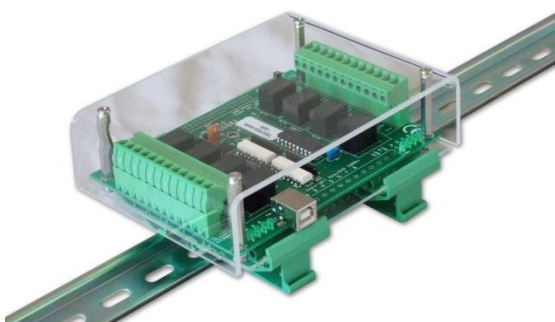
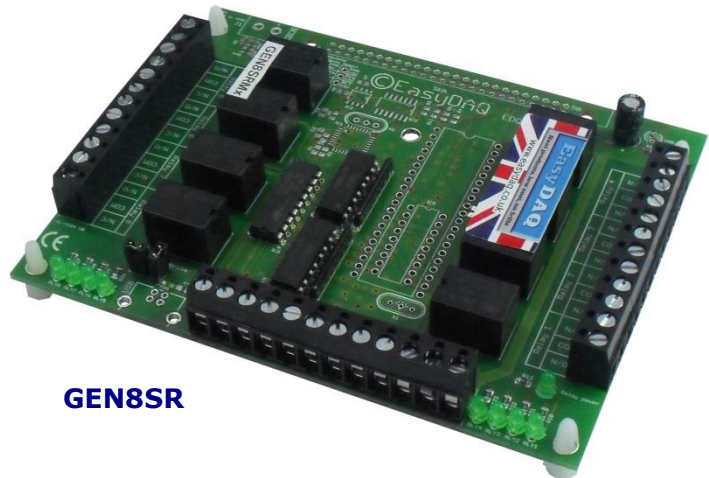


Product Datasheet 62
Features

- 8 channel, general purpose, opto isolated signal relay card
- PCB tracking (& power relays) are designed to handle 3 amps @ 120V AC, or 3A @ 24V DC (switched or continuous). Detailed relay spec – see page 2
- Screw terminal blocks allow connection to all relay contacts, the digital control signals & PSU input connections
- Two types of screw terminal connector available: Fixed screw terminal blocks or two part (male/ female), quick disconnect type connectors
- Relays are SPDT, Form C, changeover type, with N/O, COM and N/C contacts. Edge mounted screw terminal block access to N/O COM & N/C relay contacts (8 onboard relays) via edge mounted screw terminal blocks
- Opto-isolation between control signal inputs & the eight onboard relays = 2500V (AC Vrms min). Uncommitted opto-isolated inputs allow complete electrical isolation if needed
- Opto-isolated DC control signal input voltage range (Logic High): 4V to 75V (max, current must be limited to 10mA max), Logic Low 0V to 1.5V. Suitable for driving from a low current signal source such as an 8255 programmable DIO type device
- LED status indicators for power and relay activation status
- Supplied with nylon feet. Clear Perspex cover & base option available. DIN rail base clip (with Perspex cover) mount option also available
- CE, RoHS & BS9001:2000 compliant



COVERDIN8 (Acrylic cover and DIN rail mount base plate – fitted to a USB8SR2 relay card)



GEN8SR

Description

Low cost, general purpose, 8 channel, opto-isolated relay card with the option of fixed screw terminal blocks or 2 part (male/female) allowing rapid connect/disconnect.

Relays are single pole changeover type, capable of switching 120VAC @ 3Amps. PCB tracking is designed to handle 3 Amps. Fitted with PSU & relay LED status indicators.

The screw terminal blocks give access to N/O, COM & N/C relay contacts, the channel input control signals and the 0V/5V DC supply terminals.

The card requires an external DC supply (if relays are 5V operating then 400mA max, assuming all relays activated). Relays can be activated via any DC signal voltage input up to 75VDC (max). Control signal inputs are opto-isolated (2K2 input resistor). Current per input channel is approx. 2.5mA @ 5VDC. Control input current must be limited to 10mA max per channel.

Specifications
Digital control signals

Input Low, 0V to 1.5VDC (Typ.).

Input High, 4V to 75V DC (Max) per channel.

Inputs sink 2.5mA @5V.

Limit to 10mA max per channel.

Operating temp range

-20 to +80°C

Power

400mA @ 5V DC for Gen8SR

Relays

See page 2

Dimensions

100mm x 130mm x 30mm (inc. feet & 2 part connectors)

Weight 120g.

Product Datasheet 62

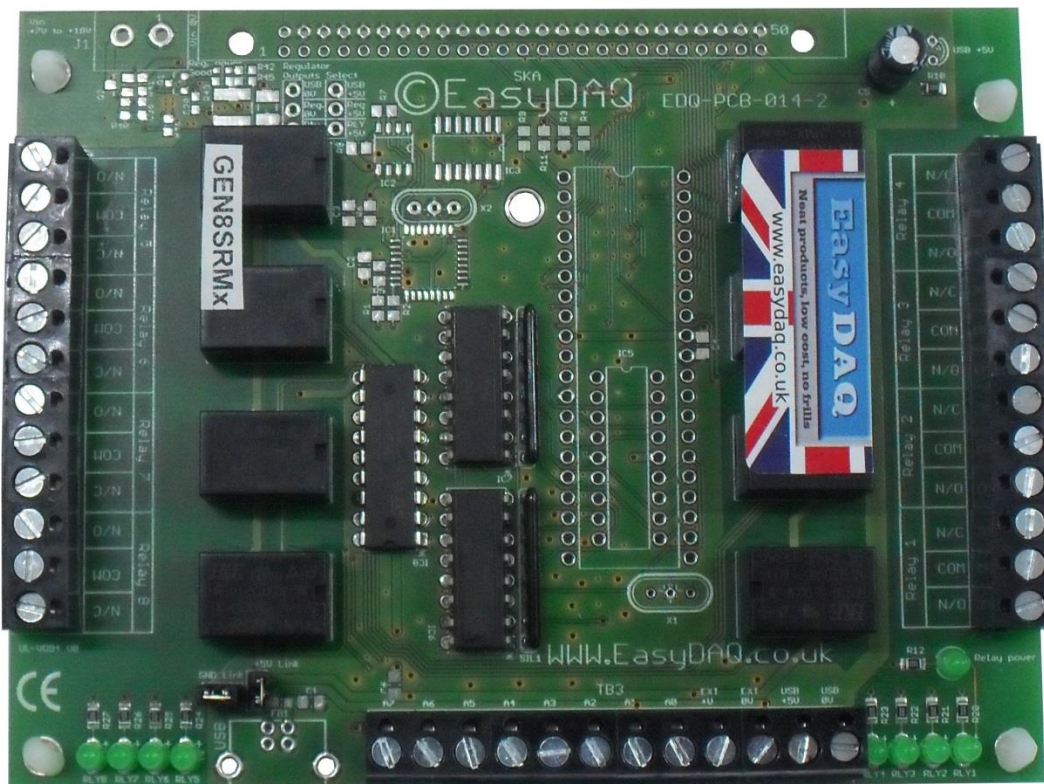
<i>Specifications: Relays</i>			
Parameter	5V Signal relays	12V Signal relays	24V Signal relays
Rated voltage/current	5VDC/40mA each	12VDC/16mA each	24VDC/8.3mA each
Must operate/release voltage	75%/10% of rated voltage		
Contact ratings	3A/120VAC or 3A 24VDC (100,000 operations)		
Operate/release time	5mS/5mS		
Contact material	AuAg overlay, Ag Alloy		
Operational life (min)	Mechanical 10 ⁷ / Electrical 10 ⁵		
Contact arrangement	SPDT, Form C		

Order codes

GEN8SR	8 sequentially operated power relays (3A), Single part connectors. 5V relays as standard.
GEN8SR-12V	As above except using 12V relays.
GEN8SR-24V	As above except using 24V relays.
GEN8SR2	5V relays and 2 part vertical connectors
GEN8SR2-12V	As above except using 12V relays.
GEN8SR2-24V	As above except using 24V relays.

Optional accessories

COVER8PR	Clear Acrylic protective cover.
COVER8PRDIN	Clear Acrylic protective cover and DIN rail adaptors.


GEN8SR Top view



Product Datasheet 62

NOTE.

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Document versions

Version number	Date	Notes
V1.0	Various	Original for EDQ-PCB-014-2 PCB.