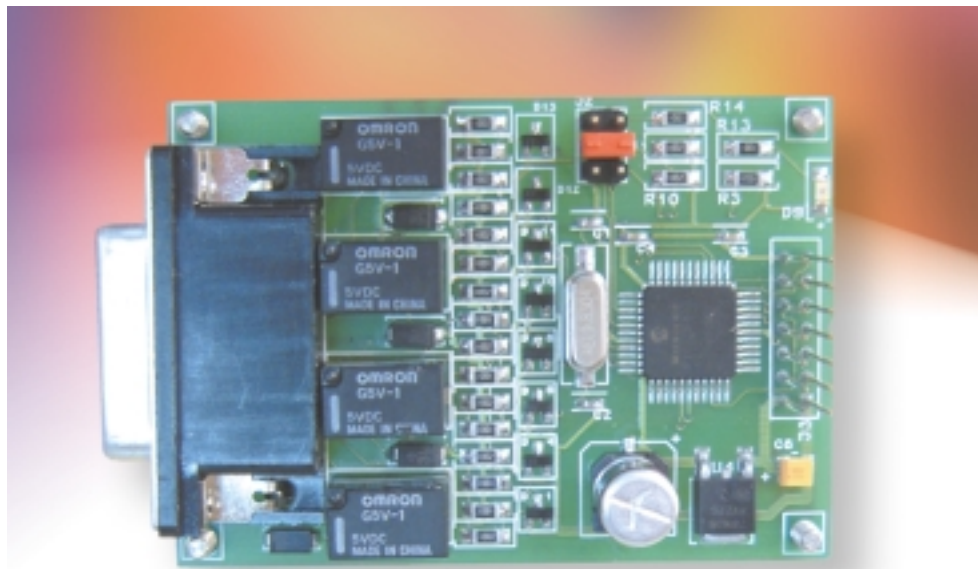


PICO SERV

Digital I/O Interface Module

8 bit digital I/O expansion module for the PicoServ system

Part of the family of I/O expansion modules for the PicoServ miniature web server system, the Digital I/O Expansion Module provides a simple means of interfacing 8 digital input and 8 digital output signals to the web server or SMS modules. Real-world input or output signals connected to the expansion module are easily displayed or changed in any web browser using only simple HTML commands.



The digital I/O module stacks directly onto the PicoServ server module to provide a 'no development' route to providing eight logic level digital inputs, four logic level digital outputs and four relay isolated outputs. Additionally all digital inputs can be assigned to a time-qualified alarm status. Up to eight digital I/O modules can be configured in one system, providing up to 64 inputs and outputs.

The digital I/O module has over 60 parameters which are used for module configuration or to exchange data between the module and a web browser via the PicoServ web server module, or a GSM handset via the

SMS gateway module.

In addition to the standard module functions, Compulogic are able to provide bespoke firmware to accommodate particular customer requirements, for example automatically changing output states based on measured input values.

Digital Outputs

Four logic level output signals, capable of sinking or sourcing 25mA per output.

Relay Outputs

Four voltage free single pole change-over relay outputs rated at 1A @ 24VDC

Digital Inputs

Eight logic level digital inputs protected to +/- 30VDC

Alarm Status

All digital input ports have programmable alarm status with optional time qualification from 1 to 9999 seconds.

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PICO SERVO Digital I/O Interface Module

Specifications

Interfaces

I ² C Serial bus interface	Used for parameter and data exchange between analogue IO module and PicoServ server module or SMS gateway module.
	Conforms to Philips I ² C bus specification.
Speed	750Kbps.
Addresses	up to 8.
Connector	14 pin 0.1" stackable header.

Digital Inputs

Number 8.

Input Levels

Input Impedance	Logic 1 = >2V. Logic 0 = <1V. 10K.
Maximum Input Level	+/- 30VDC.
Alarm Level	Configurable Hi or Lo.
Alarm Delay	0-9999 seconds.

Logic Level Digital Outputs

Number	4.
Output Levels	Logic 1 = +5V. Logic 0 = 0V.
Maximum Source Current	25mA.
Maximum Sink Current	25mA.

Relay Isolated

Digital Outputs

Number	4.
Form	Single pole changeover
Maximum Current	1A
Maximum Voltage	24VDC

Electrical

Power requirements	6-18 VDC, 20mA (relays off). 120mA (relays on).
Power consumption	840mW Max.

Environmental

Operating Temperature	0 to +70oC
Storage Temperature	-40 to +100 oC
Humidity	0-95% non-condensing

Dimensions

70mm x 50mm x 16mm (2.75" x 2" x .625")



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