EtherPAD Digital I/O

The EtherPAD Digital I/O is a versatile device that can be used in stand-alone, DIN rail or 19" rack-mount applications. The Digital I/O provides a powerful interface for connecting digital signals to Ethernet. Remotely monitor and control digital signals using SANscript to provide a customised solution. Use the sample script to send email alerts and log to file or html. Visualise the I/O status via a web browser or SNMP manager.

The device has a 10/100Base-T Ethernet interface. One RS232/RS422/RS485 serial interface connecting an asynchronous serial device to an Ethernet network is available. The second serial interface connects to the Digital I/O board.

The following key-enabled software option is required:

- **Scripting:** SANscript creates powerful custom applications which includes embedding data into the web server or MIB table. Serial, I/O & Network data can be manipulated as it traverses the EtherPAD.

Software Specification

- **Network Protocols:** TCP/IP, UDP/IP, BootP/ DHCP, TFTP, ICMP, ARP, Proxy ARP, Telnet, FTP, HTTP, SMTP, DNS, PPP, RIP, SNMP (v1), Modbus/ TCP, Modbus/UDP, Redirector (RFC2217)
- **Serial Protocols:** Raw, Redirector, TC500, Modbus/RTU, Modbus/ASCII
- **Parity**: None, Even, Odd, Mark, Space
- **Flow Control**: None, Hardware (RTS/CTS), Software (XON, XOFF)
- **Data Size:** 5, 6, 7, 8
- **Stop bits:** 1, 2
- **Data Throughput:** 300 - 115200 Baud
- Web Server
- Password protection
- Firmware upgrade over serial Kermit or network
- Max 50 concurrent network connections

Hardware Specification

- ARM7 processor
- 8MB RAM, 4MB Flash
- 10/100Base-T Ethernet line interface
- RS232/RS422/RS485 Serial interface
- RS232 Serial configuration interface
- LED indication for Ethernet & Serial port status, and indicators for Duo health.
- 4x Digital Inputs: Internal Supply Voltage of 3.3V to 3.5V across the pins can be switched by simply connecting a relay's output to the pins.
- 2x Digital Outputs: Output relays are capable of a maximum switching voltage of 24V DC/AC and a maximum switching current of 1A. Outputs can be configured as normally-open or normally-closed via an internal jumper setting.
- 1x Analog Input: There is no over current protection. Analog range is between 4mA and 20mA. External circuitry voltage required should ideally be between 6V and 24V.

Physical Specifications

Connectivity:
Ethernet: RJ45 (10/100Base-T)
Serial port (RS232/RS422/RS485): DB9 male
Serial Configuration port (RS232): RJ12
Enclosure: Black anodized aluminium extrusion with aluminium faceplate and removable DIN rail mounting.
Dimensions: 127mm x 104mm x 50mm
Weight: 570g
Temperature Range Operating:
0 degrees Celsius to 60 degrees Celsius
Temperature Range Storage:
-20 degrees Celsius to 85 degrees Celsius.

Standards Compliance

UL, CE, IEEE 802.2, IEEE 802.3

Part Numbers

EtherPAD Digital I/O: DIO1DSELDC240402
Scripting: SFW-S01
DIN Rail Mounting Kit: DK-01
Euro Power Adapter (220V): PSUF-EU-12VDC
US Power Adapter (120V): PSUF-US-12VDC

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Product specifications are subject to change without notice