

SC-DAD-F1A1A1



Product Data Sheet

Table of Contents

| General Description | .1 |
|-------------------------------|----|
| Applications | |
| General Hardware details | |
| Analog/Digital inputs details | |
| Software features | |

General Description



The **SC-DAD** is a compact smart data collection device, it can collect and treat data coming from sensors, tools, devices with output signal such as:

-Analog Signals -Digital Signals -Serial Ports (RS232/RS485) -Ethernet

The user friendly web based configuration software make the device extremely easy to configure in just few minutes.

The **SC-DAD** is not just a data collection device, it can add features to tools, devices and instruments with custom hardware and software solutions. The device can be also equipped with other hardware including touchscreen display to satisfy any kind of applications.

SC-DAD-F1A1A1

PAG 1/3

Rev 2.0.0



SC-DAD-F1A1A1



Applications

- Data collection and data treatment.
- Add features to tools, devices, instruments.
- Sensor integration (protocol integrator).
- Industrial process control.
- Laboratory instrument (signal measurement).

General Hardware details

| Atmel ARM9 400Mhz CPU | ♦ Fanless reilable CPU |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Up to 16GB of flash memory | Ideal for data storage applications |
| Linux Embedded support | High software capability |
| Two USB 2.0 host ports (12 Mbits) | Additional hardware support |
| One Ethernet 10/100 port | • Fast and secure connection |
| Real Time Clock with on-board | backup battery included |
| 2 x COM Port RS232 or RS285 | 1KV Galvanic Insulation (40Vac rms continuous) Asynchronous type Baudrate up to 115200 |
| Dimension L – W – H | ◆ 235 – 160 – 110 mm |
| Power | ◆ 5Vdc 2A max 110Vac 60Hz / 220Vac 50Hz |

Analog/Digital inputs details

| Up to 16 Analog and Digital inputs | Professional header connectors |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Resolution | ◆ 12 BIT ADC |
| Integral non linearity | ◆ +/- 2 LSB ADC |
| Input Impedance | >1.5M Ohm (+/- 10 Voltage inputs) >300K Ohm (+/- 2 Voltage inputs) 100 Ohm (Current inputs) |
| Signal ranges | +/- 2 V dc +/- 10 V dc +/- 20 mA dc 5-20 V digital inputs (4,5V Threshold) |
| Galvanic Insulation | ♦ 1KVdc for each channel |
| Input protection | ◆ UP to 300 Vdc |
| Pluggable headers connectors | Fast and easy wiring |

PAG 2/3

SC-DAD-F1A1A1



SC-DAD-F1A1A1



Software features

| Operative System | ◆ Linux Debian 6.0 embedded version |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Web server based configuration software | Easy and fast configuration by web browser No additional software required |
| Web values viewer | • Real time value monitor by web browser |
| COM port driver system | • Easy driver installation system |
| Drivers features | Data acquisition from devicesDevices control |
| Modbus on TCP/IP protocol | Compatible with standard Modbus on TCP/IP clients Fast data collection XML based auto configuration system (.SIC files generation) |
| USB Wifi Adapter support | Wifi connection speed UP to 54Mbit All encryption methods are supported |
| Plug-In system | Add features to the SC-DAD Data treatment Add new protocols for data exchange |
| Easy Backup/Restore system | Save and restore the device configuration in just few minutes |
| Easy upgrade system | Upgrade the device software Install drivers and plug-in |



SC-DAD-F1A1A1

PAG 3/3

Rev 2.0.0

www.technofittings.com