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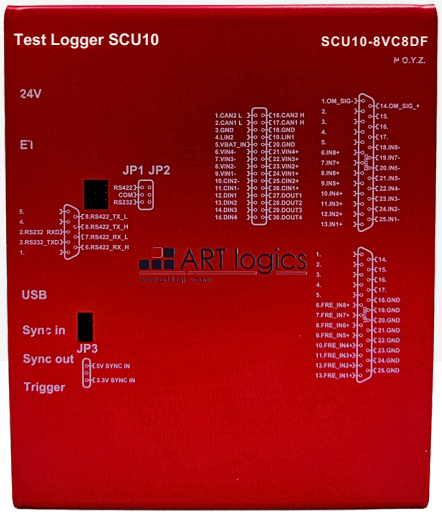
SCU10 SAMPLING BOARD STANDALONE PRODUCT
SCU10-8VC8DF



OVERVIEW

The SCU10 Fast Sampling Product offers voltage, current and frequency measurement channels. It supports a wide range of programmable configuration parameters for each input channel, for example the sampling rate, the total
period of acquisition, the trigger option, etc.
The user has the option to use the Ethernet TCP, USB-C or RS-232 as a communication interface to set the configuration of the channels and get the measurement data. In addition, The SCU10 is able to run in a standalone mode with the built in SD Card.

KEY FEATURES

- 8 channels differential voltage measurement with 1 MHz maximum sampling rate.
- 8 channels current measurement with 1 MHz maximum sampling rate.
- 8 channels counter and frequency measurement.
- Real time DSP applications on the measured signals.
- Ethernet TCP, USB-C and RS-232 communication interfaces.
- Software defined and external trigger signals support.
- Ready to use C# and LabVIEW APIs.
- External clock reference for synchronization.
- Built in SD Card to store results.

DIMENSION

L*W*H = 200mm*145mm*54mm.

OPERATING TEMPERATURE

10 ˚C ~ 35 ˚C

POWER REQUIREMENT

DC power supply:
24 VDC, 90mA

ENVIRONMENTAL

The SCU10 is intended for indoor use only but may be used outdoors if installed in a suitable enclosure. Refer to the manual for more information about meeting these specifications.

Operating temperature	**10~35**
Storage temperature	**-40~+85**
Ingress protection (IP code)	**None**
Operating humidity	**10-90% RH non condensing**
Storage humidity	**5-95% RH non condensing**

DIMENSION

L*W*H = 200mm*145mm*54mm.

SUPPORT AND SERVICES

Calibration

ART logics measurement hardware is calibrated to ensure measurement accuracy and verify that the device meets its published specifications. To ensure the ongoing accuracy of the measurement hardware, ART logics offers basic or detailed recalibration service.

ART logics
www.art-logics.com

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DETAILED SPECIFICATIONS:

Voltage Measurement	Value
Number of Channels	8
Resolution	16 bits
Sampling Speed	Up to 1 MHz
Accuracy	± 0.1%
Input Resistance	220 kΩ （Differential）
Input Range	±15 V
Synchronization	100 kHz clock input
Trigger	Rising/Falling edge digital input

Current Measurement	Value
Number of Channels	8
Resolution	16 bits
Sampling Speed	Up to 1 MHz
Accuracy	± 0.1%
Input Resistance	220 kΩ （Differential）
Input Range	±40 mV
Synchronization	100 kHz clock input
Trigger	Rising/Falling edge digital input

Frequency and Counter Input	Value
Number of Channels	8
Input Voltage Threshold	-19/+19 V
Input Resistance	100 KΩ
Input Frequency Range	0 to 100 kHz

Communication Interface	Parameters
Ethernet	TCP/IP 10/100 Mbps link Programmable Source, Gateway and Mask IPs
USB-C	USB 2.0 5V power supply
RS-232	Programmable baud rate up to 921600 bps