

Datasheet

SKN10 Stand-Alone Module Adapter

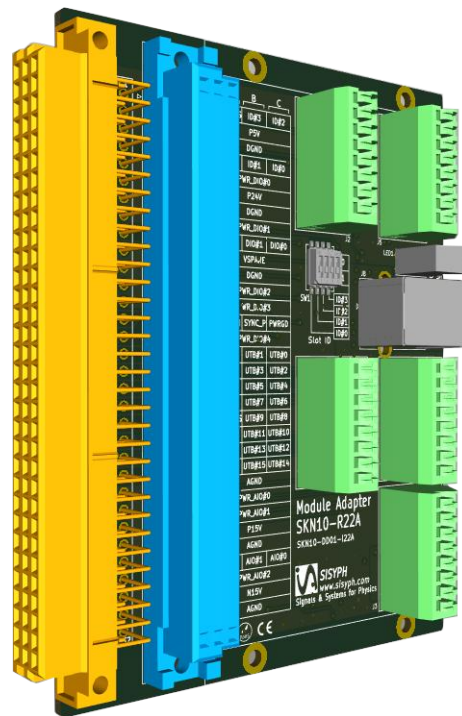
SK-Series Modules

Features

- Connects power supplies, I/O, timebase, UART, I2C...
- USB-UART isolated bridge
- I2C isolators
- Spring clamp terminals for easy connections

Applications

- Stand-alone instrument interface



General Description

Overview

The SKN10 *Stand-Alone Module Adapter* was primarily designed for use with SK-Series modular instruments. These modules can be operated stand-alone or within a platform where several modules can be assembled to configure a specific control or measurement system. Indeed, SPK-Series platforms accommodate up to eight instruments and provide power, clock synchronization, communi-

cations, and module status. In order to operate a single instrument stand-alone, *Signals and Systems for Physics* provides the user with the SKN10 Stand-Alone Module Adapter. It is very convenient for wiring all required power supplies, module's I/O or communications interfaces

Functional Block Diagram

Refer to the *Functional Block Diagram* available online for a synthetic presentation of the SKN10.

User's Guide

The last version of the SKN10 *User's Guide* is available online at the product page.

General Characteristics

The adapter is designed to be operated in laboratory environment.

Operating Temperature

Range	+15 °C to +40 °C, non-condensing.
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USB Host PC Communications

Unless otherwise noted in the instrument's datasheet.

UART format	9600 baud, 8-bit data, 1 stop-bit, no flow control.
Interface	USB 2.0.

Connectors

Module	DIN41612 96R female (2x).
USB	USB 2.0, receptacle type B.
I2C	Spring clamp terminals (4x).
Power Supplies	Spring clamp terminals (16x).
Timebase	Spring clamp terminals (3x).
Module I/O	Spring clamp terminals (16x).

Indicators

USB Activity	Led.
I2C Activity	Led.

Printed Circuit Board

Form factor	half-Eurocard.
Dimensions	100 × 80 × 1.6 mm.
Technology	2-layer, improved FR-4.

Physical Properties

Height	18 mm.
Weight	≈ 110 g.

Warranty

One (1) year parts and labor on defects.

Ordering Information

SKN10 Module

Ordering Code	Front-Panel Options
SKN10	Stand-Alone Module Adapter (standard).

Accessories

Accessories and optional parts described in this section are not included in the SKN10's package and must be therefore ordered separately if required.

USB Cable

One (1) cable is required for the communications with the host controller over the USB interface. If any USB 2.0 cable (type A male to type B male) can be used, the cable length should be limited to 1 meter.

Ordering Code	Description
SCM841	USB 2.0 cable, type A male to type B male, 1 meter length, TPE jacket.

Document Identifier

This document is identified by SKN10-SU03-P24A.

Document Revision History

P24A (2024-04-03)

Initial version.

Important Notice

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Signals and Systems for Physics
BP90406
16 place saint-Georges
F31000 Toulouse France
Phone (+33) 781 547 391
www.sisyph.com