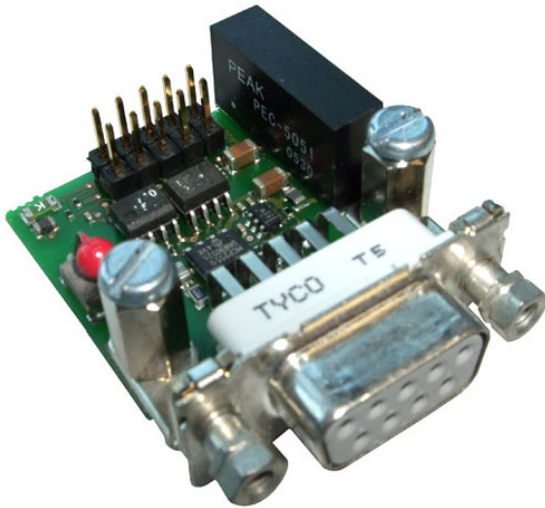


SA8 - CAN Bus SA-Adapter™



- 1 ISO high-speed channel
- Optically isolated
- Shielded 9-pin D-Sub connector

The SA8 is a 1-channel CAN ISO high-speed interface adapter with optical isolation. SA-Adapters™ are small universal boards providing the physics for legacy serial I/O, fieldbus interfaces and other small I/O functions. One serial line is provided per adapter, which can be plugged directly to the CPU board as a mezzanine. Alternatively, the adapter can be connected to the front panel via ribbon cable. The SA concept allows to add additional I/O interfaces to many of MEN's CPU boards, enhancing flexibility with

regard to the line transceivers and isolation requirements. Whether a specific SA-Adapter™ (or a mix of different SA-Adapters™) fits on a specific CPU board is determined by a combination of mechanical, performance, FPGA and operating system criteria and needs to be verified for every board configuration requested.

Technical Data

Universal Concept

- 2 data lines
- 2 power supply lines

Interface Type

- CAN, ISO high-speed, optically isolated

Interface Compliance

- ISO high-speed
- Fully compatible with ISO 11898-24 V standard

Peripheral Connections

- Via front panel on a shielded 9-pin D-Sub receptacle connector

Installation

- As a piggy-back board directly on a CPU board
- Via ribbon cable

Electrical Specifications

- Isolation voltage:
 - 500V DC
 - Voltage between the connector shield and isolated ground is limited to 180V using a varistor; AC coupling between connector shield and isolated ground through 100nF capacitor
- Supply voltage/power consumption: +5V (4.85V..5.25V), 100mA typ.
- MTBF: 610,000h @ 50°C (derived from MIL-HDBK-217F)

Mechanical Specifications

- Dimensions: 32mm x 42mm
- Weight: 20g

Environmental Specifications

- Temperature range (operation):
 - 0..+60°C or -40..+85°C (screened)
 - Airflow: min. 10m³/h
- Temperature range (storage): -40..+85°C
- Relative humidity (operation): max. 95% non-condensing
- Relative humidity (storage): max. 95% non-condensing
- Altitude: -300m to + 3,000m
- Shock: 15g/11ms
- Bump: 10g/16ms
- Vibration (sinusoidal): 2g/10..150Hz
- Conformal coating on request

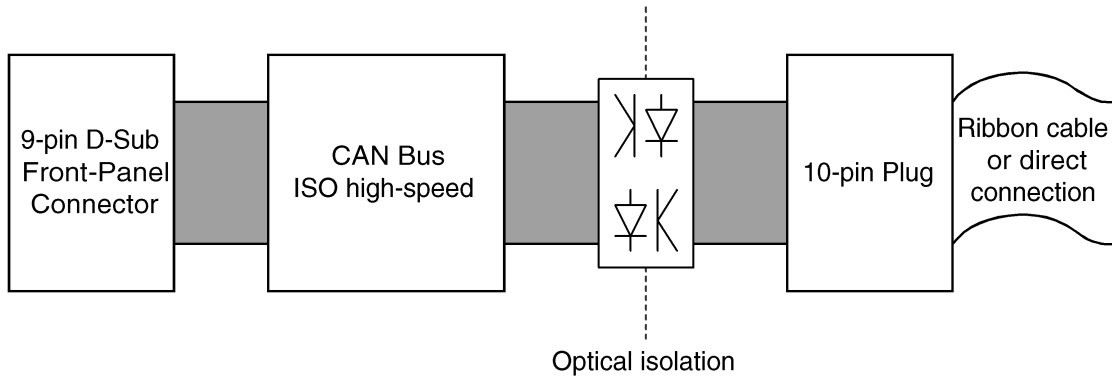
Safety

- PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers

EMC

- Tested according to EN 55022 (radio disturbance), IEC1000-4-2 (ESD) and IEC1000-4-4 (burst)

Diagram



Ordering Information

Standard SA8 Models

For more functions realized with SA-Adapters™, see the listing on MEN's website. View listing of SA-Adapters™. Please contact sales to make sure that these SA-Adapters™ can be used in the board configuration you are looking for.

- 08SA08-00** CAN ISO high-speed, optically isolated, 0..+60°C
08SA08-01 CAN ISO high-speed, optically isolated, -40..+85°C screened

Documentation

- 20SA08-00** SA8 User Manual

For the most up-to-date ordering information and direct links to other data sheets and downloads, see the SA8 online data sheet under » www.men.de.

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