

AD67 – 6U I/O Extension for A12, A15, D3, SC13

- **Connectors for:**
- **3 SA-Adapters™ (serial I/O)**
- **2 PS/2**
- **1 USB**
- **1 2.5" hard disk**

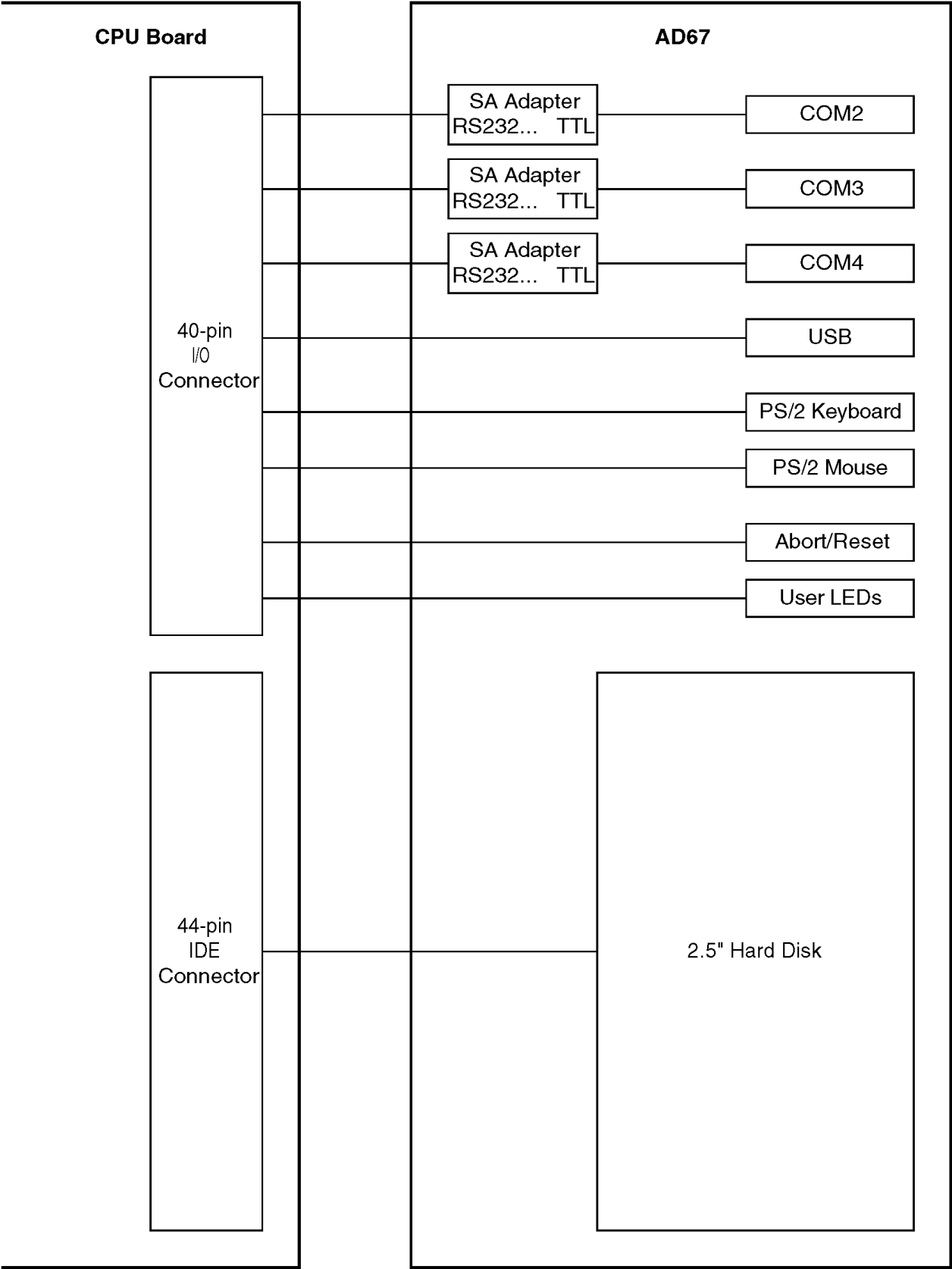


The AD67 is an I/O extension card for a variety of MEN CPU cards in 6U format such as the VME SBC families A12 and A15, the CompactPCI® SBC family D3 or the stand-alone SBC family SC13. The AD67 is directly connected to the respective single-board computer - without being connected to a VME or CompactPCI® backplane. Its purpose is to provide physical access to

several onboard functions of the above named SBCs. The AD67 provides connectors for USB, two PS/2 (keyboard/mouse), a 2.5" hard disk and three SA-Adapters™.

Especially the SA-Adapters™ allow flexible configuration with all kinds of legacy serial I/O - also optically isolated - like RS232, RS422, RS485. The front panel comes with two user LEDs and two switches for reset/abort. The AD67, together with the respective SBC, takes two slots in a VME or CompactPCI® system (8 HP).

Diagram



Technical Data

Peripheral Connections	■ COM2 to COM4 □ TTL signal level □ For easy connection of MEN SA-Adapters™ □ Connectors at front panel ■ PS/2 keyboard ■ PS/2 mouse ■ USB ■ IDE connector for onboard 2.5" hard disk
Miscellaneous	■ Reset/abort buttons ■ 2 user LEDs
Connection to CPU Board	■ Connection to COM2..4, PS/2, USB, buttons and LEDs via 40-pin ribbon cable ■ Connection to onboard 2.5" hard disk via 44-pin ribbon cable
Electrical Specifications	■ MTBF: 195 000 h @ 50°C (without hard disk) (derived from MIL-HDBK-217F)
Mechanical Specifications	■ Dimensions: standard double Eurocard, 233.3 mm x 160 mm ■ Weight: 204 g
Environmental Specifications	■ Temperature range (operation): □ 0..+60°C without hard disk □ +5..+55°C with hard disk □ Industrial temperature range on request □ Airflow: min. 10 m³/h ■ Temperature range (storage): □ -40..+85°C without hard disk □ -40..+65°C with hard disk ■ Relative humidity (operation): max. 95% non-condensing ■ Relative humidity (storage): max. 95% non-condensing ■ Altitude: -300 m to +3000 m ■ Shock: 15 g, 11 ms ■ Bump: 10 g, 16 ms ■ Vibration (sinusoidal): 2 g, 10..150 Hz ■ 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)

Ordering Information

Standard AD67 Models	08AD67-01	I/O extension 19" 6U 4HP incl. 1 USB connector, 1 keyboard connector, 1 mouse connector; prepared for 3 SA adapters, prepared for HDD 2.5", reset, abort, 0..+60°C
SA-Adapters™	You can find a more detailed overview of possible carrier board/SA-Adapter™ combinations along with software support in our option matrix (PDF) .	
	08SA01-00	RS232, not optically isolated, 0..+60°C
	08SA02-00	RS422/485, half duplex, optically isolated, 0..+60°C
	08SA02-01	RS422/485, full duplex, optically isolated, 0..+60°C
	08SA02-07	RS422/485, full duplex, optically isolated, -40..+85°C screened
	08SA03-00	RS232, optically isolated, 0..+60°C
	08SA03-01	RS232, optically isolated, -40..+85°C screened
Miscellaneous Accessories	05AD67-00	IDE mounting kit 44-pin to 44-pin; 50.8 mm; installation kit for Kahlua Box or A12, A15, D3 with AD67, temperature range: -40..+85°C
Documentation	20AD67-00	AD67 User Manual

Contact Information

Germany

MEN Mikro Elektronik GmbH
Neuwieder Straße 3-7
90411 Nuremberg
Phone +49-911-99 33 5-0
Fax +49-911-99 33 5-901

info@men.de
www.men.de

France

MEN Mikro Elektronik SA
18, rue René Cassin
ZA de la Châtelaine
74240 Gaillard
Phone +33 (0) 450-955-312
Fax +33 (0) 450-955-211

info@men-france.fr
www.men-france.fr

USA

MEN Micro, Inc.
24 North Main Street
Ambler, PA 19002
Phone (215) 542-9575
Fax (215) 542-9577

sales@menmicro.com
www.menmicro.com

The date of issue stated in this data sheet refers to the Technical Data only. Changes in ordering information given herein do not affect the date of issue. All brand or product names are trademarks or registered trademarks of their respective holders.

MEN is not responsible for the results of any actions taken on the basis of information in the publication, nor for any error in or omission from the publication.

MEN expressly disclaims all and any liability and responsibility to any person, whether a reader of the publication or not, in respect of anything, and of the consequences of anything, done or omitted to be done by any such person in reliance, whether wholly or partially, on the whole or any part of the contents of the publication.

The correct function of MEN products in mission-critical and life-critical applications is limited to the environmental specification given for each product in the technical user manual. The correct function of MEN products under extended environmental conditions is limited to the individual requirement specification and subsequent validation documents for each product for the applicable use case and has to be agreed upon in writing by MEN and the customer. Should the customer purchase or use MEN products for any unintended or unauthorized application, the customer shall indemnify and hold MEN and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim or personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that MEN was negligent regarding the design or manufacture of the part.

In no case is MEN liable for the correct function of the technical installation where MEN products are a part of.

Copyright © 2013 MEN Mikro Elektronik GmbH. All rights reserved.