

Midi-Aries



Midi-Aries Computers



The MIDI-Aries series is based on our rugged, I/O-rich **Aries SBC**. This board features the Intel "Bay Trail" E3845 CPU with an extensive set of PC I/O such as dual gigabit Ethernet, 4 multiprotocol RS-232/422/485 serial ports, and 2 USB 2.0 ports. The PC/104-Plus and PCIe MiniCard sockets enable easy I/O expansion with hundreds of I/O modules. Expansion is made easier with the prefab connector cutouts hidden behind a removable panel along the lower front edge.

MIDI-Aries systems are available with an embedded Ubuntu Linux or Windows Embedded 7 Standard OS programmed on the internal flashdisk at a nominal additional charge. Windows 7 orders include the appropriate Windows license.

Key Feature List (refer to **Aries SBC** product page for more detailed information)

| | |
|------------------|--|
| SBC | Aries ARS3845-4GA or ARS3845-4GN |
| Processor | Intel "Bay Trail" E3845 1.91GHz quad core Atom |
| Memory | 4GB |
| Ethernet | 2x 10/100/1000 – Intel I219 / I210 |
| Serial ports | 4x RS-232/422/485, software configurable protocol and termination |
| USB ports | 2x 2.0 (additional 1x 3.0 port available with custom front panel) |
| Display | VGA (HDMI available with custom front panel) |
| Data acquisition | Optional 16 16-bit A/D 250KHz, 4 16-bit D/A with waveform generator |
| Digital I/O | 22 (A models), 16 (N models) |
| Mass storage | 32GB SSD standard; 256GB max |
| Operating system | Ubuntu 16.04 LTS Windows Embedded Standard 7 |
| Input voltage | 5VDC (-01 models), 7-34VDC (-02 models) |
| I/O expansion | PC/104-Plus (PCI + ISA) up to 2 modules for -01 models, 1 module for -02 models 1x PCIe / USB Minicard full-size socket |

Operating temperature -40 to +85°C fanless
Dimensions 183mm W x 140mm D x 81mm H
Mounting methods Integrated rubber feet
Wall mount bracket kit
DIN rail kit

| Model | Data Acquisition | Input Voltage |
|----------------|------------------|---------------|
| MIDI-ARS45A-01 | Yes | 5VDC |
| MIDI-ARS45A-02 | Yes | 7-34VDC |
| MIDI-ARS45N-01 | No | 5VDC |
| MIDI-ARS45N-02 | No | 7-34VDC |

www.diamondsystems.com | [Sunnyvale, California USA](#) | [+1-650-810-2500](tel:+16508102500) | sales@diamondsystems.com