

MVME8100 Air Cooled Single Board Computer

P/N: 6806800P26D September 2019

1 Box contents

Make sure you receive all items of your shipment:

- MVME8100 board
- One printed copy of Quick Start Guide (this document)
- One printed copy of Safety Notes Summary



When installing or servicing the system or accessories, strictly observe the safety precautions in the *Safety Notes Summary*. Ignoring these instructions can void the system warranty and cause personal injury or property damage.

2 ESD

Use ESD protection



Electrostatic discharge and incorrect installation or removal of the card can damage circuit or shorten its life.

Use a properly grounded ESD wrist strap or work in an ESD-safe environment.

Connect to the ESD connector at the front or the rear of the system.

3 Site preparation

1. Make sure that all environmental and power requirements defined in the *MVME8100/8105/8110 Installation and Use* manual are met.
2. Remove all items from the box.

4 Install a PMC/XMC (option)

1. Remove the PMC/XMC filler plate from the front panel cut-out.
2. Slide the front bezel of the PMC/XMC into the cut-out from behind. The front bezel of the PMC/XMC module will be flush with the board when the connectors on the module align with the mating connectors on the board.
3. Align the mating connectors properly and apply minimal pressure to the PMC/XMC until it is seated to the board.
4. Insert the four PMC/XMC mounting screws through the mounting holes on the bottom side of the board, and then thread the four mount points on the PMC/XMC.
5. Tighten the screws.

5 Install the Board

Note: The MVME8100 and associated Rear Transition Modules (RTMs) do not support hot swap. Power off the slot or the system and make sure that the serial ports and switches are properly configured.

1. Attach an ESD strap to your wrist.
2. Attach the other end of the ESD strap to an electrical ground. The ESD strap must be secured to your wrist and to ground throughout the procedure.
3. Remove any filler panel that might fill that slot.
4. Install the top and bottom edge of the MVME8100 into the guides of the chassis.
5. Make sure the levers of the two IEEE locking injector/ejectors (if equipped) are in the unlocked outward position.
6. Slide the MVME8100 into the chassis until you feel resistance.

7. Simultaneously move the injector/ejector levers (if equipped) in an inward direction until locked. If fitted with SCANBE ejectors, adjust them inward and apply pressure to them to seat the board.
8. Verify that the MVME8100 is properly installed.
9. Secure the board to the chassis using the two screws located adjacent to the injector/ejector levers.
10. Connect the appropriate cables to the MVME8100.
11. If installing an RTM, repeat steps 1-10 for the RTM.
12. When the MVME8100 (and optional RTM) is installed in a chassis, you are ready to connect peripherals and apply power to the slot or system.
13. The front-panel Micro-DB9 connector provides a console interface to U-boot. It presents an RS-232 DTE interface (TX/RX/CTS/RTS). The default serial configuration is 9600/8/N/1. This mates with an ITT MDSM-9SC-Z11 (or equivalent).

The SMART Embedded Computing part number **SERIAL-MINI-D2** converts this to a standard male DB9 interface.

Technical Assistance

For technical assistance or to report product damage or shortages, contact your local SMART Embedded Computing sales representative or visit <https://www.smartembedded.com/ec/support/>

Get More Information



For more information on this product, see the *MVME8100/8105/8110 Single Board Computer Installation and Use* manual and other related technical documentation, which can be found by using the Documentation Search at <https://www.smartembedded.com/ec/support/>.

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