Penguin Edge™ MVME3100 Quick Start Guide

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1 Box contents

Make sure you receive all items of your shipment:

- MVME3100 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 *Penguin Edge™ MVME3100 Installation and Use* manual are met.
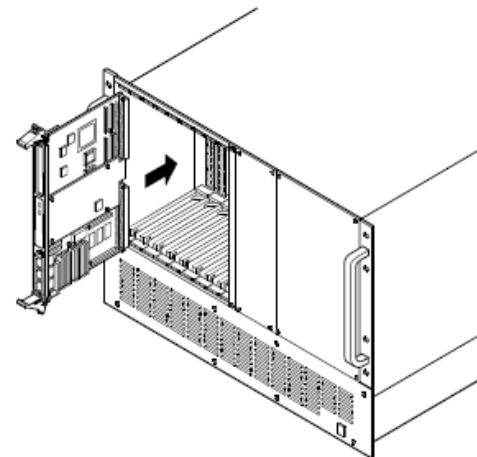2. Remove all items from the box.

4 Configure hardware

To produce the desired configuration and ensure proper operation of the Penguin Edge™ MVME3100, you may need to carry out certain hardware modifications before installing the module. For more information, refer to the *Penguin Edge™ MVME3100 Installation and Use* manual.

5 Install the board

Note: Before removing the housing cover make sure that the system is shut down and disconnected from AC power.

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 the slot.
4. Install the top and bottom edge of the MVME3100 into the guides of the chassis.

5. Make sure the levers of the two injector/ejectors are in the outward position.
6. Slide the MVME3100 into the chassis until you feel resistance.
7. Simultaneously move the injector/ejector levers in an inward direction.
8. Verify that the MVME3100 is properly seated.
9. Secure the board to the chassis using the two screws located adjacent to the injector/ejector levers.
10. Connect the appropriate cables to theMVME3100.
11. When the MVME3100 is installed in the chassis you are ready to connect peripherals.

6 Connect peripherals

The following table lists the available connectors on MVME3100.

Connector	Function
J4	PMC expansion connector
J11, J12, J13, J14	PCI mezzanine card (PMC) slot 1 connector
J21, J22, J23	PCI mezzanine card (PMC) slot 2 connector
J24	Boundary scan header
J25	COP header
J27	USB connector
J28	Front panel SATA connector
J29	Planar SATA connector
J30	Planar SATA power connector
J41B	10/100/1000Mb/s Ethernet connector
J41A	COM port connector
P1, P2	VME backplane connectors
J1A, J1B, J1C, J1D	COM port connectors
J2A	10/100/1000Mb/s Ethernet connector
J2B	10/100Mb/s Ethernet connector
J10	PIM power/ground
J14	PIM I/O
P2	VME backplane connector

7 Complete installation

1. Verify that the board is installed and the power/peripheral cables connected are appropriate for your system configuration.
2. Replace the chassis or system cover, reconnect the system to the AC or DC power source and apply power.

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Technical Assistance

For technical assistance or to report product damage or shortages, contact your local Penguin Solutions™ sales representative or visit *https://www.penguinsolutions.com/edge/support/*.

Get More Information

For more information on this product, see the *Penguin Edge™ MVME3100 Single Board Computer Installation and Use* manual and other related technical documentation, which can be found by using the Documentation Search at *https://www.penguinsolutions.com/edge/support/*.