MOTOROLA

MVME6100

Starter Kit

KEY FEATURES

Quickstart MVME6100 application development, integration, or evaluation

3U, 6-slot, 5-row VME chassis

MVME6100 board of your choice

Ethernet cable, serial cable, and power cord

Getting Started Guide for hardware and software set-up

Easy download of VxWorks BSP or Linux LSP

To start working with the MVME6100, all you need to do is configure the MVME6100 for your application, insert it into the chassis, connect the Ethernet and/or serial cables and you're ready to begin development. You can easily access the VxWorks BSP or a Linux 2.4 or 2.6 Linux Support Package (LSP) by following the instructions in the *MVME6100 Starter Kit Getting Started Guide*.

The MVME6100 Starter Kit chassis is a 3U, 6 slot chassis with a five-row VME64x backplane capable of supporting the 320MB/s 2eSST VMEbus transfer rates of the MVME6100.

The chassis features innovative front to rear redundant cooling that ensures optimum airflow over all boards in the chassis. Serviceability features include front removable power supply and fan module. System monitoring is performed by an alarm module within the fan assembly. The alarm provides a visual indication of power and fan failure status via LEDs on the front of the fan module. It also monitors ambient air temperature and incorporates a fan speed control to increase airflow in the event of a fan failure.

In addition to the six VME slots, the chassis also provides six, 80mm transition module slots in the rear transition module bay.
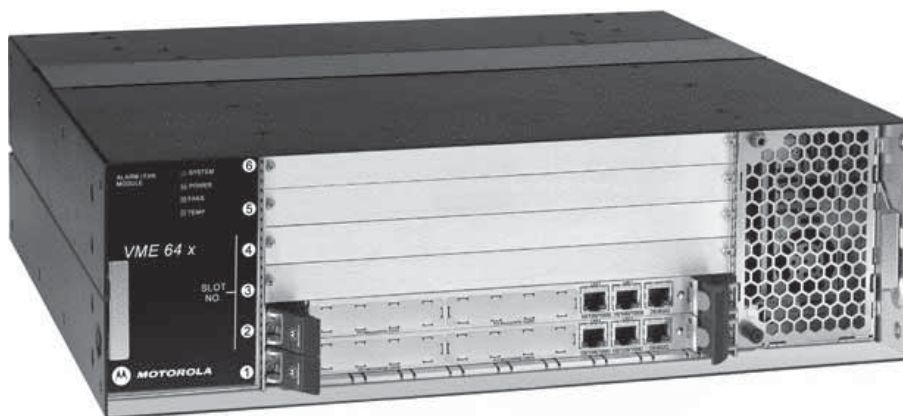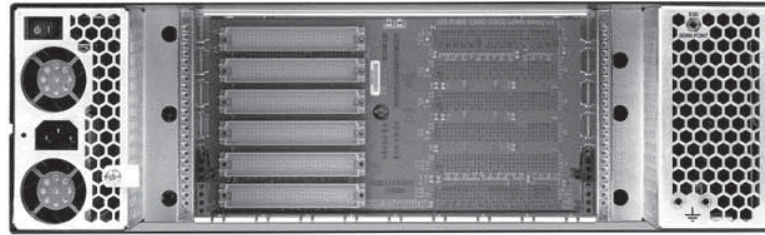

RoHS 0/6 NOT COMPLIANT

The MVME6100 Starter Kit makes it easy for you to begin evaluation and development using the MVME6100 single-board computer. The Starter Kit includes a set of pretested components that can be quickly and easily integrated in the lab environment to provide a convenient development environment for MVME6100 applications.
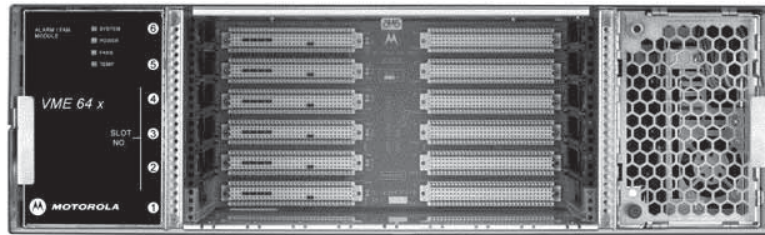
Front View

Rear View

MVME6100

Please refer to the MVME6100 datasheet for more information.

CHASSIS

Height: 5.25" (133.35mm) (3U)

Width: 18.90" (480mm) including mounting flanges

Depth: 15.44" (392mm) from mounting flanges

Weight: Approx. 30 lb. (13.6kg) unloaded; approx 35 lb. (15.9kg) fully loaded

Backplane: VME64x 5-row backplane, 6 slots

Airflow: 250 LFM minimum to each front payload slot and 100 LFM minimum to each transition module slot

Power Supply: 460W auto-ranging AC power module, input 90-264 VAC, 47-63 Hz

DC Outputs:	Voltage	Maximum current
	+3.3V	30A shared with +5V
	+5V	30A shared with +3.3V
	+5V	50A
	+12V	8A
	-12V	0.8A
	+5V STBY	2A

Note: +3.3V and +5V share 30A. Usage of +3.3V will subtract from the available +5V current, up to 30A. If +3.3V is not used, then 80A are available on +5V.

CABLES

North America/Japan power cord supplied with chassis

Ethernet cable, category 5, 3m long, RJ-45 connectors

Serial cable, category 5, 3m long, RJ-45 connectors and RJ-45 to DB-9 adapter

OPERATING SYSTEM SOFTWARE

• VxWorks 5.4.2 BSP, 5.5 BSP, 5.5.1 BSP (downloadable from Wind River Web site)

• Linux 2.4.x LSP, 2.6.x LSP (downloadable from Motorola Web site)

ENVIRONMENTAL

The LXV3000CHAS-K chassis was designed to meet regulatory requirements, but has not gone through the regulatory approvals process. The chassis is therefore supplied for development and lab use only. For production and deployment purposes, please contact Motorola or your Motorola authorized distributor to obtain the necessary regulatory agency approvals.

ORDERING INFORMATION

Part Number	Description
Order one or more MVME6100 boards of any configuration	
MVME6100-0161	1.267GHz MPC7457, 512MB DDR, Scanbee handles
MVME6100-0163	1.267GHz MPC7457, 512MB DDR, IEEE handles
MVME6100-0171	1.267GHz MPC7457, 1GB DDR, Scanbee handles
MVME6100-0173	1.267GHz MPC7457, 1GB DDR, IEEE handles
Order chassis	
LXV3000CHAS-K	3U, 6-slot, 5-row VME64x chassis with power supply, fans, and North America/Japan power cord
Order Starter Kit package	
MVME6100-SK-PKG	Starter Kit Package with Ethernet cable, serial cable, serial adapter, and Getting Started Guide
Optionally order power cord if power outlets are not compatible with America/Japan power cord	
5052	Australia/New Zealand power cord
5053	Denmark power cord
5054	France power cord
5055	Germany power cord
5056	Italy power cord
5057	Switzerland/Norway power cord
5058	U.K. power cord

SOLUTION SERVICES

Motorola provides a portfolio of solution services optimized to meet your needs throughout the product lifecycle. Design services help speed time-to-market. Deployment services include global 24x7 technical support. Renewal services enable product longevity and technology refresh. And solution extras include enhanced warranty and repairs.

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