

# VME8200

## 9U 21Slot VME64X Enhanced Crate series



## Features



- 19"x 9U (6+3) enclosure
- 21 slot for 6Ux160mm VME modules
- VME64X compliant monolithic backplane
- Pluggable Power Supplies with different configurations up to 2500 W
- Pluggable 2U Fan Unit
- Pluggable 1U Air Filter
- Completely free rear side access of VME backplane with optional rear side transition card cage 3U/6U x 80mm
- Short circuit protection
- Over / Under voltage protection
- Over temperature protection
- CAN bus, Ethernet, USB, RS232 interface for remote monitoring and control
- SBC controlled with graphic OLED display
- Automatic daisy chain, CBLT compliant
- Easy firmware upgrading

## Description

The **VME8200** crates are based on a modularity concept and consist of four detachable parts:

- The Subrack (Bin + Backplane): Mod V8200/XX 9U Bin 1 with 21 slot monolithic backplane (VME64X J1/J0/J2). The rear J2/ J0 area of the VME backplane is available for 21 6Ux80mm (or 3Ux80mm) rear transition modules (RTM).
- The Pluggable VME Power Supply with different configurations, allows up to 2500 W output.
- The Pluggable ventilation and control unit (2U Fan Tray): Mod A8160 Smart VME Fan Unit, with OLED display and various interfaces.
- The Pluggable air filter (1U).

The power supply is placed in the bottom, behind the fan tray unit, in order to keep the rear of the VME backplane completely accessible.

Safety features include: short circuit protection, Over / Under voltage protection, Over temperature protection. Remote monitoring and control take place through CAN bus, Ethernet, USB and RS232 interfaces. The crates are also SBC controlled via graphic OLED Display, provide Automatic Daisy Chain and support Chained Block Transfer (CBLT). User-friendly control software completes the VME8200 features. The Unit is powered by 92 ÷ 264 Vac, 50 ÷ 60 Hz, power factor 0.98% (230 Vac).

## Technical Specifications

### Mechanics

- 9U bin for 6U x 160 mm VME cards, 21 slots, 2U space for fan tray,
- 1U Air Filter Overall dimensions: height 399.2mm, width 482.4mm (19"), depth 544.4mm
- Rear J2/J0 area of the VME backplane available for 21 6Ux80mm (or 3Ux80mm) rear transition modules (R TM)

### Backplane

VME64X J1/J0/J2 Automatic daisy chain, CBLT compliant

### Mains input

Auto range: 92 ÷ 264 Vac, 50 ÷ 60 Hz, inrush current: < 16 A @ 230 Vac power. fact. > 0.98 @ Output Power > 1 kW

### Maximum Total Output Power

1200 W @ 100 Vac, 2530 W @ 211 Vac

### Interface

RS 232, USB (2.0), CAN bus, Ethernet

### Fuse

External 16 A, type B/C

### Output power

110/220 A @ +5 V, 20/40A @ +/-12 V, 110/220 A @ +3.3 V

### Power requirements

1760W @ 100Vac at full load; 3600W @ 211Vac at full load

### Isolation

CE acc. to EN 60950

### Load Regulation

< 10 mV for 0-100% load change @ +5 V, < 10 mV for 0-100% load change @ +3.3 V, < 15 mV for 0-100% load change @ +/-12 V

### Efficiency

75% ÷ 85% @ 230 Vac configuration dependent

### Noise and ripple

< 10 mVpp

### Temperature sensors

Power Supply Control: nr. 1 FAN Unit: nr. 1 Backplane: nr. 8 (optional)

### **Over Voltage Protection**

Trip Off when the output voltage > 103% ÷ 120% (programmable) of set voltage

### **Under Voltage Protection**

Trip Off when the output voltage < 80% ÷ 97% (programmable) of set voltage

### **Over Current Protection**

Trip Off when the current > programmable Iset value

### **Over Temperature Protection**

Trip Off when temperature of a single Power Supply block > 90° C Signaled: temperature FAN Unit > 50° C , temperature Power Supply Control > 65° C

### **Cooling Airflow**

540 m<sup>3</sup>/h (at maximum fan speed)

### **Operation 0÷50° C**

0÷50° C without derating

### **Firmware**

VME8200 firmware can be upgraded via Ethernet

## Ordering Options

Code	Description	
WV8200VME011	VME8200/11 - VME64X 9U crate, 21 Slot J1/J0/J2, smart fan unit, RTM, (5V 110A,+/-12V 20A, 3.3V 110A)	RoHS
WV8200VME012	VME8200/12 - VME64X 9U crate, 21 Slot J1/J0/J2, smart fan unit, RTM, (5V 220A,+/-12V 20A, 3.3V 110A)	RoHS
WV8200VME013	VME8200/13 - VME64X 9U crate, 21 Slot J1/J0/J2, smart fan unit, RTM, (5V 110A,+/-12V 20A, 3.3V 220A)	RoHS
WV8200VME014	VME8200/14 - VME64X 9U crate, 21 Slot J1/J0/J2, smart fan unit, RTM, (5V 220A,+/-12V 20A, 3.3V 220A)	RoHS
WV8200VME015	VME8200/15 - VME64X 9U crate, 21 Slot J1/J0/J2, smart fan unit, RTM, (5V 110A,+/-12V 40A, 3.3V 110A)	RoHS
WV8200VME016	VME8200/16 - VME64X 9U crate, 21 Slot J1/J0/J2, smart fan unit, RTM, (5V 220A,+/-12V 40A, 3.3V 110A)	RoHS
WV8200VME017	VME8200/17 - VME64X 9U crate, 21 Slot J1/J0/J2, smart fan unit, RTM, (5V 110A,+/-12V 40A, 3.3V 220A)	RoHS

## Related Software

### OPC Server



OPC Server for CAEN Power Supplies

---

## Related Software Libraries

### CAEN HV Wrapper Library



Library for CAEN Power Supply Control

---

## Related Products

### VME8010



7U 21 Slot VME64 Low Cost Crate

---

### VME8200



9U 21Slot VME64X Enhanced Crate series

---

### VME8001



1U 2 Slot VME64 Mini Crate

---

### VME8011



7U 21 Slot VME64 Low Cost Crate

---

## Gallery



**This document, or parts thereof, may not be reproduced in any form or by any means without written permission from Caen S.p.A. Although every effort has been made to ensure the accuracy of information presented in this catalog, Caen S.p.A reserves the right to modify its products specifications without giving any notice; for up to date information please visit [www.caen.it](http://www.caen.it) © Caen S.p.A - 2024**

**CAEN S.p.A.**

Via Vetraia 11  
55049 - Viareggio  
Italy

**Phone +39.0584.388.398**

**Fax +39.0584.388.959**

**info@caen.it**

**www.caen.it**

**CAEN GmbH**

Brunnenweg 9  
64331 Weiterstadt, Germany

**Phone +49 (0)212.254.4077**

**Mobile +49 (0)151.16.548.484**

**info@caen-de.com**

**www.caen-de.com**

**CAEN Technologies, Inc.**

1 Edgewater Street - Suite 101  
Staten Island, NY 10305  
USA

**Phone +1.718.981.0401**

**Fax +1.718.556.9185**

**info@caentechnologies.com**

**www.caentechnologies.com**

**CAENspa India Private Limited**

B205, BLDG42, B Wing,  
Azad Nagar Sangam CHS,  
Mhada Layout, Azad Nagar, Andheri West  
Mumbai, Maharashtra 400053, India

**info@caen-india.in**

**www.caen-india.in**

