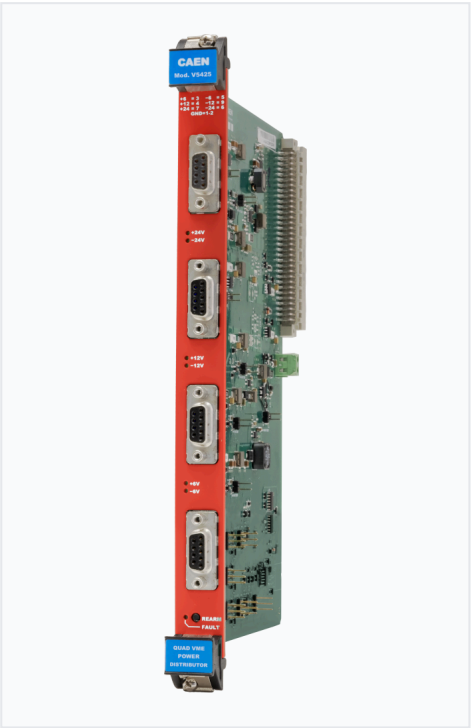
V5425

Quad VME Power Distributor

The V5425 is a 4-channel VME power distribution module in a 1-unit wide VME 6U form factor. It converts VME crate power into ±6 V, ±12 V and ±24 V rails, delivered through four Sub D9 female connectors, each providing all six voltages for preamplifiers and other devices. Total output power is 36 W, with maximums of 24 W on the ±6 V outputs and 24 W on the ±24 V outputs. Individually filtered outputs provide low noise and low ripple; all rails are monitored, LED-indicated and protected by self-recovering electronic fuses.



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Tools for Discovery

Overview

Product Highlights

- 1-unit wide VME 6U module
- Low Ripple
- Protection of all voltages by self-recovering electronical fuses
- Standard voltage output compatible with electronics by CAEN and many other manufacturers
- Four DB9 connectors with ±6 V, ±12 V, ±24 V each
- Monitoring of all 6 voltages on each output
- Individually filtered outputs to ensure low noise operation

Product Description

The CAEN **Mod. V5425** is a 4-channel **VME power distribution** module housed in a 1-unit wide VME 6U form factor. It converts the power supplies provided by a VME crate into ±6 V, ±12 V and ±24 V outputs, suitable for preamplifiers and other devices. Its standard output voltages are compatible with electronics by CAEN and many other manufacturers.

The output voltages are delivered through **four Sub D9 female connectors**, each providing all six rails (±6 V, ±12 V and ±24 V). The total output power is 36 W, with a maximum of 24 W on the ±6 V outputs and 24 W on the ±24 V outputs. For technical information on the D-Sub9 connector, see our connectors reference page.

Low-noise preamplifiers need DC power that is free of interference from other modules in the VME crate. The V5425 meets this need by filtering the power lines separately at each connector, so every output operates with low noise and low ripple.

The module also protects and monitors every output. Self-recovering electronic fuses protect each voltage output and automatically restore operation after a short circuit. All six voltages are monitored on each output, and LEDs display their status.

AT A GLANCE

Package	**VME**
No. of Channels	**Pre-Amp: 4**
Pre-Amp Supply	**+6 V / 2 A -6 V / 1.5 A ±12 V / 500 mA ±24 V / 250 mA**
Connectors	**Pre-Amp: 4 Sub D9 female**
Noise	**±6 V < 1 mVpp ±12 V ±24 V < 2 mVpp**

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Technical Specifications

Mechanical Packaging	1-unit wide VME 6U module; weight: 280g
Power Requirements	Output: ±24V @ 0.25A, ±12V @ 0.5A, -6V @ 1.5A, +6V @400mA (36W out total). Consumption: ±12V: 600 mA, +5V: 6.1A Output: No Load. Consumption: ±12V: 0A; +5V: 200mA
Output Connectors	Power Supply output; 4 Sub D9 female connectors
Displays	±6V, ±12V, ±24V: green LEDs; power supply OK when ON. Fault: red LED, error status when ON
Push button	Rearm: restore operation after an error status (Fault LED) is detected; Fault cause must be removed before sending Rearm
Maximum Output Power	Total: 36W; ±6V: 24W; ±24V: 24W
Current Output	Voltage, Max Current at full load, Nominal current +6V, 2.14 A, 2 A -6V, 1.62 A, 1.5 A +12V, 560 mA, 500 mA -12V, 530 mA, 500 mA +24V, 272 mA, 250 mA -24V, 275 mA, 250 mA

Voltage drop at full load

Voltage, Drop (%)
- +6V, -4.7%
- -6V, -4.2%
- +12V, -1.9%
- -12V, -1.9%
- +24V, -0.2%
- -24V, -0.3%

Voltage Ripple

- ±6V: 1 mVpp
- ±12V: 2 mVpp
- +24V: 3 mVpp
- -24V: 5 mVpp

(typical values, 16Hz ÷ 20MHz bandwidth)

Vout / Temperature coefficient 10°C ÷ 60°C range

- +6V: 155 ppm/°C
- -6V: 178 ppm/°C
- +12V: 48 ppm/°C
- -12V: 72 ppm/°C
- +24V: 18 ppm/°C
- -24V: 72 ppm/°C (10°C ÷ 60°C range)

Environmental	Indoor use
Operating Temperature	-20 °C ÷ 50 °C
Operating Humidity	25% ÷ 95% RH non condensing
Storage Temperature	-30 °C ÷ +80 °C
Storage Humidity	5% ÷ 90% RH non condensing
Altitude	≤2000 m
Pollution Degree	2
Overvoltage Category	II
EMC Environment	Commercial and light industrial
IP Degree	IPX0 enclosure, not for wet location

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Technical Specifications (continued)

Compliance

- EMC: CE 2014/30/EU Electromagnetic compatibility Directive
- Safety: CE 2014/35/EU Low Voltage Directive
- RoHS compliant

Ordering Information

ORDERING CODE	DESCRIPTION
WV5425XAAAAA	V5425 – Quad VME Power Distributor

1. Ordering codes and descriptions are reproduced from the product record. Availability is confirmed at order entry.

Related Products

A1422 — Low-Noise Fast-Rise-Time Charge-Sensitive Preamplifiers (Boxed)

VME8001 — 1U 2 Slot VME64 Mini Crate

VME8004X — 2U 4 Slot VME64X Mini Crate

VME8008X — 4U 8 Slot VME64X Mini Crate

VME8100 — 8U 21 Slot VME64/64X Enhanced Crate Series

µ-crate — Desktop single-slot VME64X Crate

NV8020A — 7U CRATE VME/NIM 8 slot VME64 365W, 5 slot NIM 150W

VME8004B — 2U 4 Slot VME64 Mini Crate

VME8008B — 4U 8 Slot VME64 Mini Crate

VME8011 — 7U 21 Slot VME64 Low Cost Crate

VME8200 — 9U 21Slot VME64X Enhanced Crate series

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