

Backplane VME430

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The CERN V430 "nuclear VME" standard extends the traditional VME/VME64 bus by additional DC and signal lines provided on a 30-pin J-aux connector. The monolithic WIENER VME430 is designed as a 10-layer board in strip-line technology and is fully consistent with ANSI/VITA 1-1994 and IEEE-1014-1987 as well as CERN VME430 specifications. The backplane is actively terminated and provides automatic daisy chain either actively or mechanically (in connector, on request).

The extended power layers and special current rails permit highest power distribution. The 21 slot monolithic J1/J2 backplane has more than 300A current capability on 5V, which corresponds to 15A per slot (at 70A°C). Optional the J2 can be equipped with 160pin 5-row connectors.

For power distribution and connection a flat sandwich-like structure of copper sheets is mounted on the back of the upper J1 area. All DC wiring from this high-current multi-layer structure to the power supply situated in the bottom is integrated into the backplane layout by using the space between the connector shrouds.

Main features

- 6U WIENER monolithic VME-J1/J2/Jaux backplane according to CERN VME430 standard
- Available with 21, 10, 9, 7 or 5 slots

- Automatic daisy chain (mechanically or electronic)
- Excellent power distribution capability by current multi-layer structure
- Monolithic J1/Jaux/J2 WIENER VME430 backplane, 10 layers
- J1 and J2 outfitted with 3 row 96-pin DIN connectors
- Jaux according to CERN V430 (30 pins, 3 row DIN)
- 5, 7, 9, 15 and 21 slots available
- Strip line technology suitable for maximum data rates of (320Mbyte/s, 64bit)
- Optimized RF shielding
- Well dispersed filter-capacitors
- Minimized ground shift and cross talk
- Automatic daisy chain (mechanically or electronic)
- Flat cable style connector for sense and control
- Provision for up to 8 temperature sensors (module temp. checking)
- Sense circuit protection by PTC- resistors (Optionally)
- Excellent power distribution capability by current multi-layer structure
- Maximum power Capabilities (per Slot J1/J2)

Item	Bus	Size	Connectors	Slots	Termination	Daisy Chain
0BB0.0003V	VME430	6U	J1/Jaux/J2	21	active	Electronic, CBLT

Other configuration on request!

6U VME430 J1/Jaux/J2 backplane (CERN spec.)

Monolithic multi-layer backplane with active automatic daisy chain and active termination outfitted with 96pin DIN connectors J1/J2 as per IEEE-1014-1987 and 30 pin Jaux. Meets VITA VME and CERN V430 specifications entirely. Available with 9 or 21 slots. VME64x style 5 row 160-pin connector version are optionally offered:

- Strip line technology suitable for data rates of 320Mbyte/s (64bit)
- High power distribution by current multiplayer / bus bar system
- Excellent RF shielding
- Optimized filtering (electrolytic and ceramic filter-capacitors)
- Minimized ground shift and cross talk
- Automatic daisy chain
- flat cable connector for sense and control
- Provision for up to 8 temperature sensors (module temp. checking)
- Sense circuit protection by PTC- resistors (Optionally)
- Geographical address, bussed and terminated differential signals: clock, start/stop gate, and clear
- ECL voltages -2V and -5V, +/-15V (Optional), clean earth

Power per slot	VME 430	VME 64x-V430
(20°C / 70°C)	J1-Jaux-J2	J1-Jaux-J2 /spec. V 430
3,3V		17A / 12A
5V	19A / 15A	15,3A / 10,8A
+/-12V	3,2A / 2,5A	1,7A / 1,2A

+/-15V	3,2A / 2,5A	3,2A / 2,5A
-5,2V	19A / 15A	19A / 15A
-2V	9,5A / 7,5A	9,5A / 7,5A
V1, V2		1,7A / 1,2A
Layers	10	10

Product Data Sheet

Backplane VME430:

[Print Product Data Sheet](#)

Documentation

Manual:

Introduction:

[WIENER VME VXI VXS introduction](#)

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