MPOD Mix crate

Request Quote

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Mpod with integrated bus

Mpod EC and LX models can be customized to integrate a Wiener or a custom 3U to 6U bus backplane (VME, VME64x, cPCI, …). All voltages required from the backplane specifications are provided. When no rear transition modules are needed, these compact solutions allow saving money and space by reducing the number of needed crates, i.e. combining power supply with DAQ.

Further the MPOD mainframe is configurable to have all LV / HV connectors either on the front or rear side. Different control and monitoring options are offered. A combo interface with 10/100 Ethernet, CAN bus and USB-2 provides a variety of network capabilities. Local control is available by using the LCD display.

Main Features

- Controller and HV/LV modules as in standard Mpod
- 1 to 10 slots for HV/LV modules; 7, 9 or 10 slots Wiener VME and VME64x backplanes
- Compact PCI, PXI, VXS or other backplanes provided by the customer can be installed
- 94V - 265VAC world-wide auto-range AC input, with power factor correction, CE

- 19" rack mountable bin with module cage for 10 LV or HV modules, Ruggedized mechanics
- Two mounting modes: outputs at front- or at rear side
- 8U bin for bottom cooling air intake, 9U high for front air intake, optional with dust filter
- Modular design: fan tray and primary power supply easily removed
- Module size 6U x 8PU, 220mm deep
- LV and HV modules freely pluggable
- High Voltage modules with 8, 16 or 32 channels of 0,5kV … 6kV, floating or common ground, up to 480 HV channels per Mpod- mainframe possible
- High precision modules
- Resolution 12 bit (LV), 16/20 bit (HV)
- LV/HV Controller with Ethernet, CANbus, USB interface, and interlock input
- OPC server for TCP/IP
- 94V - 265VAC world-wide auto-range AC input, with power factor correction, CE
- Graphic display for monitoring and programming, single rotary/push- button operated (optional)
- Dimensions: 19" x 460mm (depth) x 8U (bottom air intake) or 9U (front air intake)
- Weight: ca. 20 Kg, depending on options

Type	Bus slots	Mpod slots	Air baffle or special slots
Mpod EC - VME64	8 + bus controller	5 + Mpod controller	1
Mpod LX - VME64x	8 + bus controller	5 + Mpod controller	1
Mpod EC - CPCI (3U)	8	5 + Mpod controller	2

Specs:	
Rated mains input range	106- 230VAC ± 15% (90...265VAC)
Rated input current	Sinusoidal 16A for suffix H input, 32A for suffix K input
Inrush current:	limited to rated input current (cold unit)
Input fuse:	external, internal on request
Isolation (Inp.- outp.)	CE EN 60950, ISO 380, VDE 0805, UL 1950, C22.2.950
DC output power:	600 ... <3000W (92 …265VAC)

EMC Compatibility		
EMA.	**EN 61 000-6-3:2001**	**[RF emission]**
	EN 55 022:1998 + Corr:2001 + A1:2000 Class B	conducted noise
	EN 55 022:1998+ Corr:2001 + A1:2000 Class B	radiated noise
	EN 61 000-3-2:2001	harmonics
	EN 61 000-3-3:1995 +Corr:1997 +A1:2001	flicker
EMB	**EN 61 000-6-2:2001**	**[immunity]**

	EN 61 000-4-6:1996 + A1:2001	injected HF currents
	EN 61 000-4-3:1996 + A1:1998 + A2:2001	radiated HF fields incl. ”900MHz”
	EN 61 000-4-4:1995 + A1:2001	Burst
	EN 61 000-4-5:1995 + A1:2001	Surge
	EN 61 000-4-11:1994 + A1:2000	voltage variations
	EN 61 000-4-2:1995 + A1:1998 + A2:2001	ESD

Operation temperature:	0… 50°C ambient without derating, Storage:-30°C ... +85°C
Temperature coefficient:	< 0,2% / 10K
Stability:	10mV or 0,1% / 24 hours, 25mV or 0,3% / 6 month
	(under constant conditions)
Current limits:	adjustable to any lower level
Voltage rise characteristics:	monotonic 50ms, processor controlled.
Overvoltage protection:	crow bar protection trip off adjusted to 125% of nominal voltage each output
DC Off (trip off):	within 5ms if >5% deviation from adjusted nominal values, after overload, overheat, overvoltage, undervoltage (bad status), and fan fail, if temperatures exceed 125°C at heat sinks Limits programmable. Outputs discharged by crow bars, when power supply tripped- or switched Off.
Efficiency:	75% ... 85%, depends on used modules

M F O T (Maintenance Free Operation Time):		
internal blowers:	40°C ambient	>65 000 h
	25°C ambient	100 000 h
electronics:	40°C ambient	>100 000 h

Product Data Sheet

MPOD Mix crate:	Print Product Data Sheet

Documentation

Manual and Tech-Notes :	MPOD
Introduction:	WIENER Power Supplies intro

Downloads	
CD-ROM :	MPOD
MUSEcontrol :	Download
SNMP:	Download
OPC-Server:	Download
USB-to-IP:	Download
Programming Tool (display):	Download
Firmware MPOD:	Download