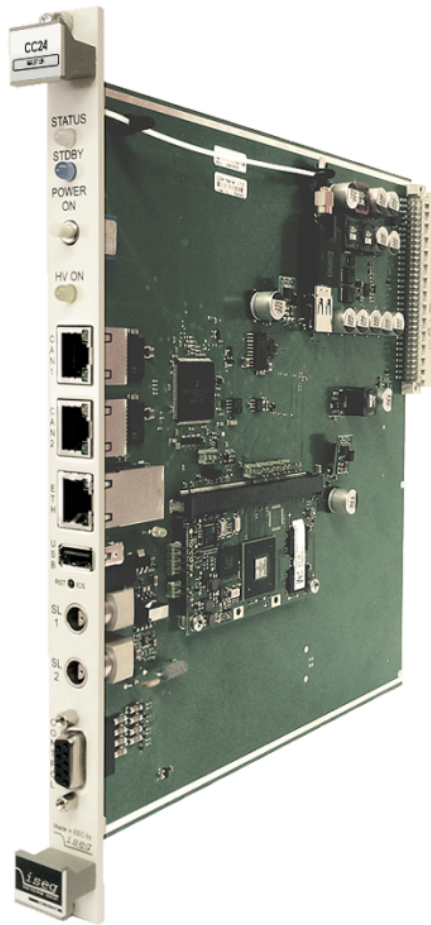


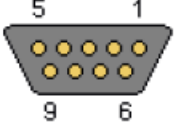
MPOD Controller LV, HV or both



Key Facts MPOD Controller

- TCP/IP 10M/100M port, auto ranging
- Built-in HTTP web server
- DHCP or fixed IP address
- TCP/IP protocol with SNMP v.2c for full control of all module parameters
- 2 CAN-Bus ports, wired in parallel for daisy-chaining
- USB2 interface (for set-up and firmware updates)
- 3 status LED's
- Interlock connector (9pin DSUB)

Special Interlock & Status Connections

DSUB9 female	Pin	Signal	Comment
	1	CRATE_ENABLE	TTL input (1 kOhm resistor to GND) A high level allows the channels to be switched on by software A low level forces all channels to switch off with their specified down ramp.
	2	CRATE_FAST_OFF	TTL input (1 kOhm resistor to GND) A high level forces all channels to switch off as fast as possible. Any ramp-down settings are ignored.
	3	reserved	
	4	reserved	
	5	GND	Ground reference
	6	CRATE_STATUS	TTL output (1 kOhm resistor to GND, 100 Ohm resistor to protect the output buffer) This signal is driven high, if one or more channels of the MPOD system do have a non-zero output voltage
	7	reserved	
	8	reserved	
	9	reserved	

Technical Overview

Device Name	MPOD Controller 0R00.0009
Preparation Materials	- MPOD Controller - Oscilloscope with probe - Electronic load (24 V/1 A + 5 V/5 A) - Laboratory power supply (0–30 V/1 A) - XDS510USB programmer - PC with SDFlash, MUSEcontrol, CP210xSetID, ssh - PCAN-USB adapter - Tested 6020 power supply
Tools / Software	- MUSEcontrol - SDFlash - PCAN-VIEW - CP210xSetID - ssh shell
Interfaces / Connections	- Ethernet - USB (serial interface via CP210x) - CAN (Wiener + Iseg) - D-Sub Interlock
Firmware / SNMP Configuration	- SNMP commands for setting serial number and configuration (SetCommunity, SNMP address, PWM offset, etc.) - Set MAC address via CP210xSetID
Power Supply Configuration	- SNMP commands for setting fan speed (FanSpeed) - Voltages: 5 V (5 A), 24 V (1 A), configurable via snmpset
Additional Notes	- Ethernet Auto-Negotiation enabled - No continuous endurance test, only retest after discharge (24 h pause)
Termination	Internal 120 Ω resistors — no external terminators needed for direct links

Kontron Hartmann Wiener GmbH

Linde 18
51399 Burscheid
Tel.: +021746780
info.we@kontron.com
www.kontron.com/kontron-hartmann-wiener