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CrossFire MX COMPACT I/O-MODULE FOR HYDRAULICS CONTROL

CrossFire MX is a freely programmable I/O-controller and CANopen device for industrial vehicle applications. The mixed I/O set-up means that a hydraulic valve block can be managed using only one device.

The rugged design enables location close to

sensors and actuators, mitigating risks associated with long signal cabling. Constant current regulation on proportional outputs makes up for non-linearity in the hydraulics system, offering the operator a more predictable machine control behavior.

Turn for technical specifications »

CrossFire MX PRODUCT SPECIFICATIONS

KERNEL	
PROCESSOR	Infineon C167CR
FLASH MEMORY	2 x 1 MB
RAM	256 kB

HMI	
STATUS LED	Power indicator LED
CAN STATUS	CAN status and CANopen status LED

COMMUNICATION INTERFACES	
CAN	ISO 11898 2.0B, Bit-rate configurable 20–250 kbps. Optional up to 1Mbit*
COM	RS232 (For firmware loading, not for application)

CANOPEN DEVICE SPECIFICS	
TYPE	CANopen slave, DS 401 profile
BIT RATE	Configurable, 20–1000 kbps
NODE ID	ID keying with 16 positions, 127 positions with SW
NODE STATES	Pre-operational, Operational and Stopped
SDO	All settings configurable by SDO's
PDO	Supports all transmission types, event timer and inhibit time. Dynamic mapping supported
NMT	Heartbeat producer and consumer Node guarding also supported

CONTROLLER SPECIFICS	
TYPE	IEC 61131-3 soft PLC
RUNTIME SOFTWARE	CODESYS

4 X INPUT PORTS	
CONFIGURABLE	Node ID via ID keying Inputs – Analog or Digital Analog
RANGE	0–5, 0–38 V
RESOLUTION	10 bit
REFERENCE VOLTAGE	5 V, separate feed per channel

4 X NODE ID OR INPUT PORTS	
CONFIGURABLE	Node ID via ID keying Inputs – Analog or Digital Analog
RANGE	0–5 V
RESOLUTION	10 bit

8 X PWM OUTPUT PORTS	
CONFIGURABLE	Outputs – Analog or Digital
STATUS FEEDBACK	Ok, Open load, Over current, short to ground
RANGE	0–30 V, Max. 3.0 A
RESOLUTION	10 bit

2 x INPUT/OUTPUT PORTS	
CONFIGURABLE	Outputs – Analog or Digital Inputs – Analog or Digital
STATUS FEEDBACK	Ok, Open load, Over current, short to ground
RESOLUTION	10 bit
OUTPUT RANGE	0–30 V, Max. 3.0 A
INPUT RANGE	0–5, 0–38 V

2 x MULTI PURPOSE PORTS	
CONFIGURABLE	Outputs – Analog or Digital Inputs – Analog, Digital, Pulse counter or Encoder
STATUS FEEDBACK	Ok, Open load, Over current, short to ground
RESOLUTION	10 bit
OUTPUT RANGE	0–30 V, Max. 3.0 A
INPUT RANGE	0–5, 0–38 V
PULSE COUNTER	Pulse up to 60 kHz
ENCODER INPUT	Full quadrature decoding, Pulses up to 60 kHz

POWER	
VOLTAGE	24 VDC nominal

ENVIRONMENT	
IP CLASS	IP67
TEMPERATURE RANGE (°C)	-40 to + 85 (operating)
EMC EMISSIONS	ISO 14982
EMC IMMUNITY	ISO 11452-2
VIBRATION	IEC 60068-2-6
SHOCK	IEC 60068-2-27

ENCLOSURE	
HOUSING	PC/ABS 85FS, Silicone filled
CONNECTORS	DIN M12, DIN M23 for power

SIZE AND WEIGHT	
W x H x D (MM)	116 x 45 x 212
WEIGHT (KG)	1.0

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