

MasterMACS Data

Programmable Motion Controller



MasterMACS

Rounds off the Motion Controller portfolio with the highest computing power and multiple integrated bus interfaces as standard.

Controller versions

CANopen Master/Slave, EtherCAT Master, EtherCAT Slave, Ethernet, Standalone with APOSS® win

Features

Motion features	Trapezoidal, jerk limited, CAM, synchronous travel, path, kinematics
Profile generator cycle	1 kHz (1 ms)
Sampling rate of PID positioning controller with speed and acceleration feed-forward control	1 kHz (1 ms)
Maximum number of axes	32
Web server (visualization)	yes
Expandable memory	SD-Card

Electrical data

Logic supply voltage V_C 18 - 30 VDC

Inputs

Digital inputs	10 (PLC level)
Analog inputs	-
Hall sensor signals	-
CAN-ID (CAN node identification)	configurable with DIP switch

Output

Digital output	4 (max. 100 mA per output)
Analog output	-
Encoder voltage output	+5 VDC, max. 200 mA
Profinet	on request

Interfaces

CAN	2 high; low (max. 1 Mbit/s)
RS232 / RS485	1 x Rx/D; Tx/D / 1 x Data+; Data-
EtherCAT-Master / EtherCAT-Slave	1 / 1
Ethernet	1
USB 2.0	1 Data+; Data- (Full Speed)

Encoder inputs

Digital incremental	1 (differential, max. 5 MHz)
Hiperface/EnDat	-

Encoder outputs

Encoder TTL outputs	-
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Indicator

LEDs	10 (status, USB, EtherCAT)
Display	Option

Environmental conditions

Temperature - Operation	0...+40°C
Temperature - Storage	-20...+85°C
Humidity (condensation not permitted)	20...80%

Mechanical data

Weight	500 / 300 g (DIN/compact housing)
Dimensions (L x W x H)	108 x 108 x 67 / 125 (108) x 98 x 42 mm
Mounting	DIN mounting / compact housing

Ordering Information: Please contact your maxon sales engineer

001725 MasterMACS DIN 32 ax

001728 MasterMACS compact housing 32ax

Data logger/web server

For development and analysis purposes, it is frequently helpful to collect, prepare and output data on drive systems.

Our MACS controllers provide easy options for high-performance data storage, be it on an internal SD card or via a connected PC tool. Relevant data can be recorded on a per-event basis or for long-term observation.

This data can be read out and analyzed at a later time. This flexibility makes it possible to use the MasterMACS purely as data collectors. An integrated web server provides the option of performing analysis and configuration via remote diagnostics.