

Product Datasheet

Characteristic

LMC078CECS20T

motion controller LMC078-20DIO
transistor sercos compact Ethernet
Canopen 24Vdc



Main

range of product	Modicon LMC078
product or component type	motion controller
product specific application	packaging material working material handling
discrete I/O number	20
battery type	3 V lithium battery

Complementary

discrete input number	12 total input 8 regular input 4 capture input
discrete input logic	sink
discrete input voltage	24 V
discrete input voltage type	DC
voltage state1 guaranteed	15...30 V input
voltage state 0 guaranteed	-3...5 V input
discrete input current	4 mA
input impedance	6 kOhm
configurable filtering time	0.1...4290 ms regular input 0.1...4290 ms capture input
discrete output number	8 output
discrete output logic	source
discrete output voltage	24 V DC
output voltage limits	19.2...28.8 V
protection type	short-circuit protection
input/output number	<= 768 distributed discrete inputs and outputs <= 364 distributed analog inputs and outputs
[Us] rated supply voltage	24 V DC
supply voltage limits	20.4...30 V
[In] rated current	500 mA per output < 2 A for all outputs

peak current	<= 2 A (duration= 1 s)
execution time per instruction	2 ns
memory type	128 MB NVRAM memory 512 MB RAM memory
data storage equipment	512 MB SD card
programming language	CFC (continuous function chart) FBD (function block diagram) IL (instruction list) LD (ladder) SFC (sequential function chart) ST (structured text)
realtime clock	with +/- 1 s/day
data backed up	variables of type retain and retain persistent with battery date and hour with battery
battery life	10 yr
integrated connection type	1 isolated serial link with female RJ45 connector; protocol: Modbus with master/slave method; transmission frame: RTU/ASCII or character mode ASCII; physical interface: RS232/RS485; transmission rate: 480 Mbit/s 1 CAN port with male SUB-D 9 connector; protocol: CANopen with master method 1 isolated serial link with mini B USB connector; transmission rate: 480 Mbit/s 1 encoder with screw terminal block connector 1 isolated serial link with female RJ45 connector; physical interface: SERCOS III 1 isolated serial link with female RJ45 connector; protocol: Ethernet Modbus TCP/IP with slave method; physical interface: 10BASE-T/100BASE-TX; transmission rate: 300...115200 bps 1 isolated serial link with USB type A connector
local signalling	1 LED green with PRG marking programming indication 1 LED green, orange and red with SIII marking SERCOS III bus status 1 LED green/red with STS marking status of the module (Mod Status) 1 LED green/red with CAN marking CANopen bus status
marking	CE
mounting support	screw clamp
width	1.77 in (45 mm)
height	9.06 in (230 mm)
depth	8.66 in (220 mm)
product weight	4.85 lb(US) (2.2 kg)

Environment

standards	CSA C22.2 No 142 UL 508
product certifications	CSA UL
ambient air temperature for operation	41...131 °F (5...55 °C) vertical installation
ambient air temperature for storage	-13...158 °F (-25...70 °C)
relative humidity	5...95 % without condensation
IP degree of protection	IP20 conforming to IEC 61131-2
pollution degree	2
operating altitude	0...6561.68 ft (0...2000 m) without derating
storage altitude	0...9842.52 ft (0...3000 m)
vibration resistance	10 m/s ²
shock resistance	100 m/s ²

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1429 -
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available

