

Modicon LMC058 Motion Controllers Bases



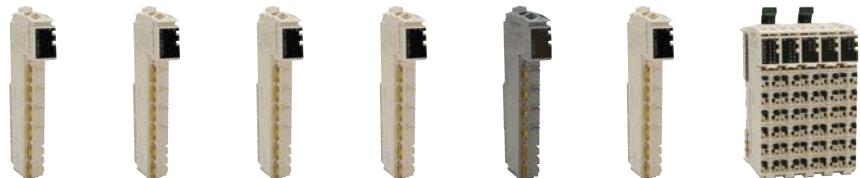
SoMachine



Controller type	42 digital I/O	42 digital I/O + 4 analog inputs
CANmotion Drive synchronisation	Up to 4 axes Up to 8 axes	2 ms 4 ms
Internal memory	RAM Flash Eeprom	64 MB 128 MB
Typical Boolean instruction time	22 ns	
Expert application	Relative and Absolute positioning Velocity control Homing CNC visual editor CAM profiles Electronic gear Interpolation Shift Compensation	Yes Yes Yes Yes Yes Yes Yes Yes
Embedded number of digital inputs	26 including 8 high speed counter	
Embedded number of digital outputs	16 outputs transistor (0.5 A) including 4 reflex outputs	
Embedded number of analog inputs	–	4
Optional communication ports	–	2 PCI slots for optional communication modules
Communication	USB-B mini-port USB-A port RJ45 port (MBS) SUB-D connector (CAN0) SUB-D connector (CAN1) SUB-D connector (Encoder) RJ45 port (Ethernet)	Programming port for SoMachine software Connection of a USB memory stick for transferring programs, data files, firmware updates RS232 serial link RS485 serial link (supplies 250 mA, 5 V for HMI power supply) Protocols: Modbus ASCII/RTU Master/Slave, ASCII (character string) CANopen bus master (63 slaves) CANmotion bus master (63 slaves) Encoder input (incremental orSSI) Ethernet IP device Ethernet TCP Modbus SoMachine protocol FTP server embedded Web server embedded
Max. number of expansions	250	
References	LMC058LF42	LMC058LF424

I/O expansion modules

For I/O expansion modules, please consult Modicon TM5 page 2/23



Type of module	Input			Output			Input Output Digital
	Digital	Analog		Digital	Analog		
Number of inputs	12 sink	–	–	–	–	–	24
Number of outputs	–	–	–	12 source	4 relay	–	18
Number of inputs	–	4	4	–	–	–	–
Number of outputs	–	–	–	–	–	4	–
Nominal input current	24 VDC	–	–	–	–	–	24 VDC
Nominal output current	–	–	–	24 VDC	30 VDC/ 230 VAC	–	24 VDC
Type	–	Thermal probe	Voltage / Current	–	–	Voltage / Current	–
Associated bus sub-bases (2)							–
	TM5ACBM11	TM5ACBM11	TM5ACBM11	TM5ACBM11	TM5ACBM12	TM5ACBM11	
Associated terminal block (2)							–
	TM5ACTB12	TM5ACTB12	TM5ACTB12	TM5ACTB12	TM5ACTB32	TM5ACTB12	
References	TM5SDI12D	TM5SAI4PH	TM5SAI4L	TM5SDO12T	TM5SDO4R	TM5SAO4L	TM5C24D18T

(1) Modicon M258 and Modicon LMC058 controllers offer the possibility of creating IP20 or IP67 islands of remote I/O via the TM5 expansion bus. For Modicon TM7 (IP67) and Modicon TM5 (IP20) modular I/O systems, please see page 6/13 and 6/3 or consult www.schneider-electric.com

(2) To be ordered separately