

| CUBE20

Cube20 is the configurable in-cabinet I/O system from Murrelektronik. Available modules include:

- Digital In and Digital Out
- Analog In and Analog Out
- RTD and Thermocouple
- Cube67/20 Interface

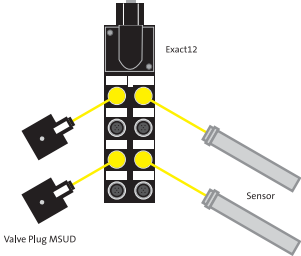
The high costs from dealing with many individual components are reduced when you use Cube20 thanks to the compact design and a high channel density of 32 channels per digital I/O module. With 488 channels on 90cm, Cube20 can easily save space and you get more flexibility.



Digital Inputs starting at less than \$5/point

Create cost efficient and useful distributed I/O packages with easy integration of passive blocks from Murrelektronik.

Your customers will benefit from easy to install systems and basic diagnostics.



EtherNet/IP™
conformance tested

PROFI®
BUS

PROFI®
NET



| Minimum Space, Maximum Value

- Single part numbers - no assembly required
- Plug in spring clamp wire terminations - ease of assembly
- Built in Web browser - check system status and diagnostics
- LEDs for each point of I/O - find problems quickly
- Ethernet Switch built in - connect to the next device quickly and easily

MURRELEKTRONIK Related Products

Digital I/O



Analog I/O



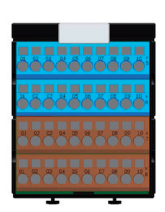
RTD / TH Module






Cube20/67 Interface





Terminal Block



Cube20 BN-E DI8 Bus Node	
	 EtherNet/IP™ <small>conformance tested</small>
Ordering Data	Art. No. 56005
Fieldbus	
Nominal Voltage	24V DC (18-30.2V), acc. to EN61131-2
Current Consumption	max. 150mA
Transfer Rate	10/100Mbit/s Full Duplex
Addressing	DHCP, BOOTP or IP address via rotary switch
I/O Capacity	Modular expandability up to max. 15 Cube20/67 modules
Inputs/Outputs	
Nominal Voltage	24V DC (18-30.2V), acc. to EN61131-2
Connections	Pluggable spring clamp terminal; ≤ 12A, max. 2.5mm ²
Digital Inputs	8
Sensor Supply U _s	24V DC (18-30.2V), acc. to EN61131-2 ≤ 700mA per module, short circuit and overload protected
Diagnostic Input	Module related monitoring of actuator supply with diagnostic via the fieldbus and LED status indication
Dimensions (H x W x D)	117 x 56 x 47mm

Cube20/67 Interface Module	
	
Ordering Data	Art. No. 56140
Fieldbus	
Nominal Voltage	24V DC (18-30.2V), acc. to EN61131-2
Current Consumption	max. 25mA
I/O Capacity	Modular Cube20/67 fieldbus station: max. 16 modules (Cube20 bus node + 15 Cube20/67 modules)
Cube67 System Supply	
Cube67 System Connection	max. 10m
Connections	Pluggable spring clamp terminal; ≤ 12A, max. 2.5mm ²
Sensor Supply U _s	24V DC (18-30.2V), acc. to EN61131-2 ≤ 700mA per module, short circuit and overload protected
Actuator Supply U _A	
Module Diagnostics	
Communication	LED Green
Undervoltage Sensor Supply U _s	U ≥ 18V (LED green), U < 18V (LED red)
Undervoltage Actuator Supply U _A	
Dimensions (H x W x D)	117 x 56 x 47mm

	Cube20 DI32	Cube20 DI16 DO16	Cube20 DO32
			
Ordering Data	Art. No. 56112	Art. No. 56168	Art. No. 56118
Inputs			
Number	32	16	
Sensor Voltage (U _i)	24V DC (18-30.2V), acc. to EN 61131-2 via pluggable spring clamp terminals, max. 2.5 mm ²		
Sensor Supply (U _s)	24V DC (18-30.2V), acc. to EN61131-2 ≤ 700mA per module, short circuit/overload protected		
Type	PNP acc. to EN61131-2		
Status Indicator	LED yellow per input		
Input Filter	1ms	1ms	
Diagnostic Input	Module related monitoring of actuator supply with diagnostic via the fieldbus and LED status indication		
Outputs			
Number		16	32
Actuator Voltage (U _A)	24V DC (18-30.2V), acc. to EN 61131-2 via pluggable spring clamp terminals, ≤ 12A, max. 2.5 mm ²		
Switching Current per Output	.5A, Short circuit and overload protected		
Lamp Load	10W		
Max. Switching Frequency	Resistive load 50Hz, inductive load 5Hz		
Diagnostics	Single channel diagnostic via the fieldbus and LED		
I/O Connection	Spring clamp plug-in terminals max. 2.5 mm ²		
Dimensions (H x W x D)	117 x 56 x 47mm		