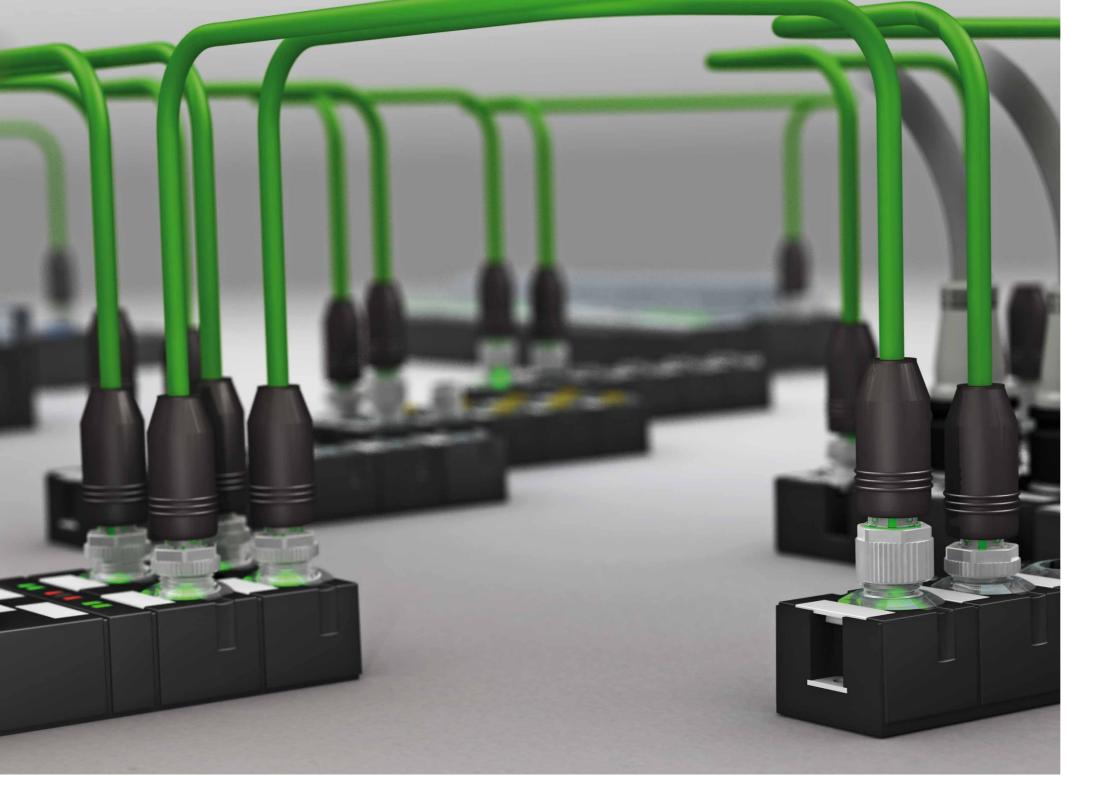


Cube

The Compact Modular I/O System





IO-Link by Murrelektronik Integration of smart IO-Link technology



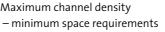
Cube67 Hygienic Design IP69K Rated: Suitable for all food zones



Cube67 Diagnostic Gateway Diagnostics made easy



M8 installation concept Maximum channel density





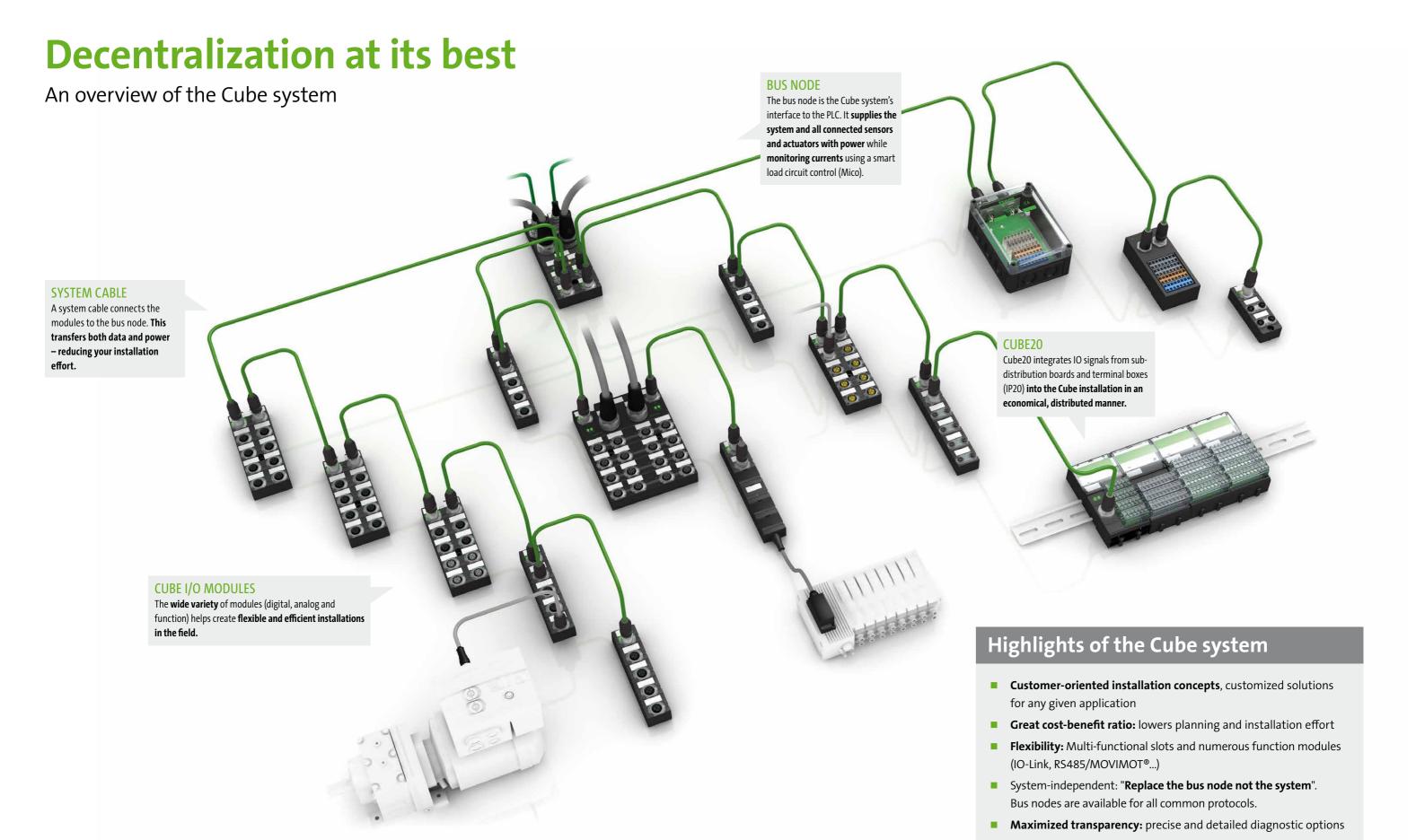
Cube

The compact modular IO system

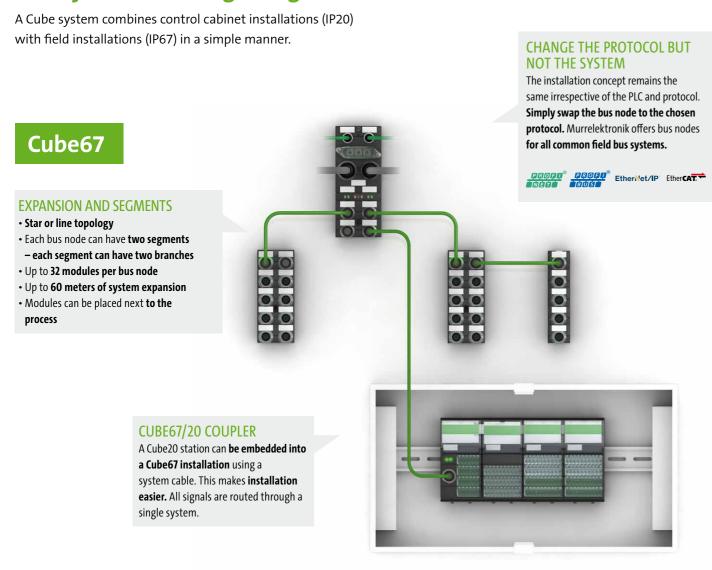
Cube is a modular fieldbus system designed for decentralized installation concepts. Its flexibility makes it easy to develop the right solution for any application.

Cube has great functionality, plug-in connections, a robust and compact design, encapsulated modules, multi-functional digital channels and IP ratings from IP20 to IP69k. The modules are installed right next to the sensors and actuators. A system cable connects modules to the bus node and transfers both data and power. Extensive diagnostics make it easy to solve problems if they occur. The number of terminals in the control cabinet is reduced through the distributed approach, freeing up space.

Cube solutions offer a valuable cost-benefit ratio across the entire life cycle of a machine through: the simplified design, fast assembly of the machine, error-free commissioning and maximized system uptime for efficient operation.



One system from beginning to end

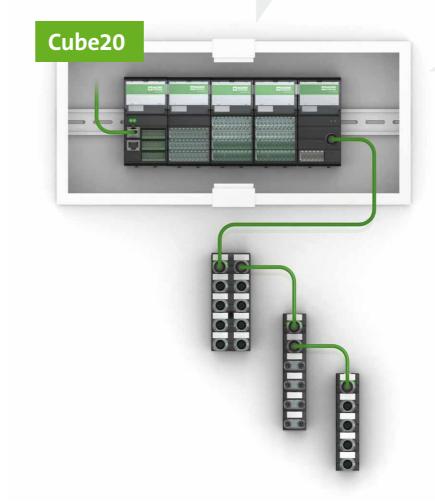


Cube67 is a distributed and expandable modular fieldbus I/O system for IP67 applications. It enables customer-oriented installation concepts and is fully adaptable to the given application by being installed in immediate proximity to the process. A system line connects the modules to the bus node, transferring both data and power.

- Arrange modules to suit the application along the system cable
- Simple module addressing reduces commissioning time
- Extensive system expansion (up to 60 meters) without separate protection systems through smart current monitoring (Mico) in the bus node
- IP67 rated, fully potted, compact modules for installation next to the process. No need for junction boxes
- Hygienically designed, IP69K rated modules for the food sector
- Plug-in connections prevent connection errors while enabling faster installation and separation for transport

CUBE IN THE CONTROL CABINET

Cube 20 is protocol-independent. Bus nodes are available for PROFINET, PROFIBUS and **EtherNet/IP.** Up to 488 digital I/O signals can beprocessed by a single station.



CUBE20/67 COUPLER

Cube67 modules can be connected via an **interface component** (branch length up to 10 m, up to 15 modules per bus node). This is easy to plan, easy to install and allows a multitude of variations.

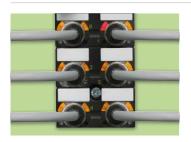
YOUR ADVANTAGES

Significantly reduced space requirements in the control cabinet, fast and easy instal**lation**, increased productivity through "Finding, not searching faults"

Cube20 is an expandable modular fieldbus I/O system for control cabinets. It can be operated as a stand-alone unit or with a Cube67. Cube20 is specifically designed for the requirements of modern control cabinet wiring. High costs due to handling of many individual components can be reduced to a minimum with Cube20.

- Compact design, low overall height
- High channel density
- 32 channels per I/O module. Up to 488 I/Os on just 90 cm
- Up to 15 modules with a single node address
- Detailed, single channel diagnostics and transparent terminals with LEDs make it easy to find errors
- Maintenance-free spring clamp terminals

Functionality with real benefits



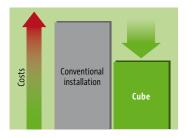
Diagnostics

Detailed diagnostic messages to the controller and LED status indicators at the ports make it easy to find errors. This reduces both commissioning time and downtime.



Multi-functional I/Os

Connections can – depending on the requirements at any given location in the distributed installation – be configured as inputs, diagnostic inputs or outputs. This allows you to connect a wide variety of components to a module. You gain flexibility while using fewer parts.



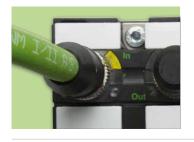
Saves time and money

Reduced design times and faster hardware and software installation increases production capacities while lowering lead times. This is how Cube secures a competitive edge.



Safety

Cube enables passive safety technology solutions. The M12 outputs and connections for the valve manifolds can be used in installations up to category 3 and performance level d (according DIN EN ISO 13849). This makes it easy to incorporate safety technology without increasing wiring efforts.



System Cable

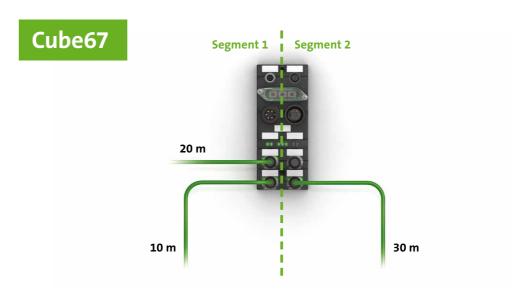
Cube67 uses a single system cable for both power supply and data transmission. Premolded cables minimize errors. The installation requires half the space and can be completed in half the time.



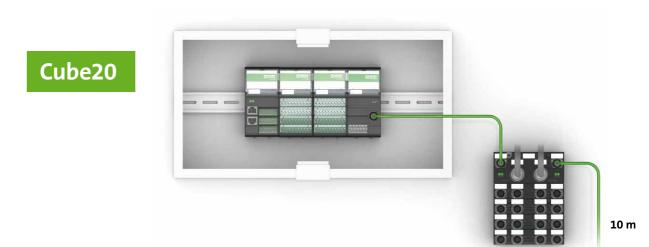
IO-Link by Murrelektronik

The integration of smart IO-Link devices in Cube67+ opens up additional possibilities and adds functionality to M12 ports. This enables flexible and automated configuration of devices.

Expansion of the Cube system



- A Cube67 bus node divides the Cube system in two segments
- There are two branches available per segment
- Up to 30 meters of system cable can be used per segment
- These 30 meters can be shared between the two branches as needed
- Branches can be terminated with your choice of a terminating resistor or compact module
- Up to 16 modules can be added to each segment
- Cube20 modules (with three expansion modules each) can be integrated into the installation via a Cube67/20 interface module



- Each Cube 20 bus node supports up to 15 additional modules
- Cube67 modules can be integrated via a Cube20/Cube67 interface module
- The entire system from the IP20/IP67 Interface to the last module is 10 meters long

Application solutions

Cube systems offer advantages to a wide range of industrial sectors



Assembly and handling technology

A Cube system, with its flexibility and compact dimensions, is suited for applications with limited installation space like those in assembly or handling technology. The modules are placed next to the process. The multi-functional ports and the large number of channels (up to 32 I/Os per module) make them optimal to fulfill the requirements of this industry. The system cable reduces routing paths. Not only does Cube connect various digital, analog and IO-Link sensors and actuators, it also integrates valve manifolds into the installation in an economical and effective way.

'Machine Option Management" (MOM) minimizes restart times after tool changes or conversion of machines and installations.

Machine tools



The robust, fully potted Cube modules and their system components can withstand the effects of oils and lubricants. They ensure the installation has a long service life. Even high curent valves (up to 2 A) can be operated without any problems. Extensive diagnostics options ensure maximized productivity.

Logistics



Terminal boxes are not needed due to flexible module arrangement and multi-functional configurable ports of the I/O modules. This reduces the installation effort. The integrated I/O check makes it possible to commission partial areas of the installation. As the system bus line can be plugged, machine parts can be separated for transport and quickly be reconnected and commissioned after setup. Function modules with an RS485 and IO-Link interface facilitate the use of RFID sensors and other complex sensors. This enables networked automation in logistics applications.

Automotive industry



In automotive production, value creation is tightly linked to minimizing downtimes of machines and installations. The Cube system's M12 ports along with "Machine Option Management" (MOM) and the automated addressing function enables short setup times. The Cube67 Diagnostic Gateway offers extensive diagnostic data online via any web browser. This data can also be transferred to many cloud analytics applications via OPC-UA.

Robotics



Thanks to "Machine Option Management" (MOM), tool changes can be done very quickly. This minimizes downtime and increases production. The system cable is torsion-resistant and needs very little space in the cable assembly. The compact design of the Cube modules together with their high vibration and shock resistance makes them a perfect choice for robotics applications.

Food & Beverage



The robust IP69K Cube modules with hygienic design enable active installation solutions suitable for food zones. Costly junction boxes and complex installations are not required. A single Cube system cable reduces costly parallel routing of individual cables on stainless steel screens to a minimum.

Packaging



The Cube system's "Change the protocol but not th system" makes installations and machines ready for global use. The Cube system processes signals with function modules (counter, logic) directly in the field, enabling shorter reaction times. Drives (MOVIMOT®) are controlled by the system in an economical and simple way.

Wood processing



Wood processing is all about flexible and efficient solutions. The Cube system with its variety of modules enables solutions for even the most challenging applications. Planning and installation efforts can be significantly reduced this way.

Fit for the future

On the way to Industry 4.0

Digitalization means global networking of machines and factories, and transparency from the sensor level all the way to the cloud. All information from product development to plant operation is visualized through a data model. The Cube system is fit for Industry 4.0 and offers forward looking features.



High first call resolution rate through remote maintenance

With Cube, machine owners know what is happening on their machine's IO level anytime and anywhere. This alows them to be proactive when errors or bottlenecks become apparent (predictive maintenance). Wide ranging process and diagnostic data are either passed to the PLC or field bus independent, to the Cube 67 Diagnostic Gateway. This enables a high first call resolution rate via remote access (remote control).

Web interface (EtherNet/IP)

If the system uses an EtherNet/IP bus node, it can be configured in a web browser. The "IO-Check" function reads inputs and assigns outputs by clicking on them – without an active controller. This helps minimize commissioning times. "Byte mapping" ensures that the byte area is not changed or shifted when additional modules are integrated into an existing installation. This avoids complex maintenance work in the configuration. The integrated IO-Link device configurator enables fast and easy commissioning of IO-Link devices.





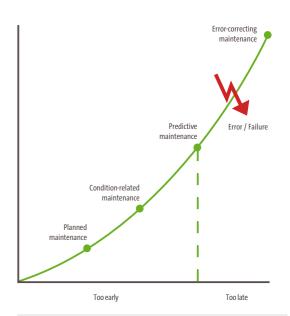
IODD interpreter

The IODD interpreter automatically evaluates the sensor data (raw data) and converts it into understandable information. The process values are output in °C for temperature or in m³/h for flow rate. The IODD interpreter facilitates integration and simplifies data evaluation.



Predictive maintenance through OPC UA

Through the standardized OPC UA interface, data is forwarded to superordinate cloud or ERP systems, such as SAP systems, independently of the platform. This data is seamlessly documented and opens up possibilities for evaluation processes that deliver the transparency required in Industry 4.0. This enables optimization of production and minimization of downtimes, which are important factors in gaining a competitive edge. For example, a technician will only be called to such an installation if it has autonomously requested maintenance. Integration into ERP systems can go so far that acquisition and delivery of spare parts is exactly timed with the maintenance work and costly follow-up maintenance can be avoided altogether.



Effective maintenance strategy for an improved system structure: From reactive to predictive maintenance



BY MURRELEKTRONIK

Integration via IO-Link interface

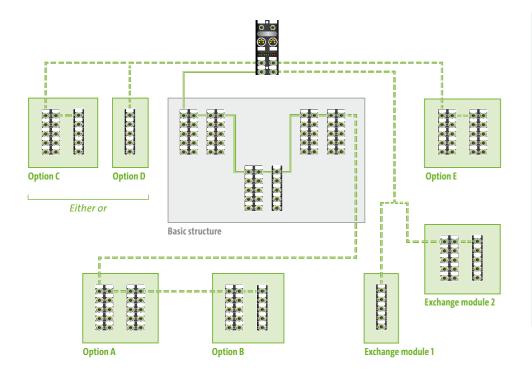
Cube67 with its IO-Link modules is perfectly suited for integration of smart IO-Link sensors. Up to 128 IO-Link devices can be connected to a single node. That is an impressive figure when compared to competitor products! Murrelektronik simplifies installation with a wide range of accessories for IO-Link integration in the form of IO-Link/analog converters, inductive couplers and hubs.

Energy management

In the Cube system, a "Bus Control" command suffices to deactivate actuators across parts of the machinery, which are currently not required. This reduces energy cost and is good for the environment.

Machine Options Management

System solutions – matched to your applications



MOM supports switching

different Cube modules on or off via the controller during operation. This is the basis for modular machine configuration, easy tool changes, standard machines with different degrees of IO expansion, optional machine attachment parts and sequential commissioning.

MOM reduces project planning and documentation efforts while also providing exceptional system flexibility.

Benefit from our know-how

Murrelektronik will provide you with extensive support for the integration of the Cube system that is right for your application. You can benefit from the wealth of practical experience that our system and application consultants have. We will accompany you through the initial development phase to the completion stage of your system design as well as commissioning. We will be at your side to help you implement the most effective, and economical, solution for your automation challenges.

For more information, contact your Murrelektronik representative.



Our Customer Service Center is always at your side – even in the event a fault occurs during operation.

Cube67 Hygienic Design

Suitable for food zones





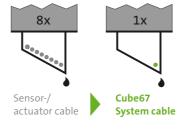


The food sector has particularly demanding requirements for the durability and cleanability of the components that are used in a system. The Cube67 Hygienic Design modules have been designed to fulfill all of them.

They feature a closed stainless steel housing as well as V4A (1.4404) threaded sleeves. They are designed to facilitate cleaning. With an IP69K rating, a Cube system can be used in any food zone.

This comes with great potential for cost reductions:

- By using Cube67 Hygienic Design modules, the particularly costly stainless steel terminal boxes used in the food sector can be phased out completely.
- Parallel wiring of individual cables over stainless steel screens in food & beverage applications is extremely complicated. The Cube system enables a direct process connection with a single system connection.
- Valve manifolds can be implemented in a cost-efficient way via the IO-Link master module.











IO-Link Master

Compact. Flexible. Future-proof.

The Cube67+ DIO16 IOL8 A/B E 8xM12 is a powerful expansion module for the Cube67+ modular fieldbus system. With its compact design, it is one of the smallest IP67 modules with 8 IO-Link master ports on the market – ideal for space-critical applications directly in the field.

CUBE67 SYSTEM BUS OUT

- 6-pin M12 A-coded
- Internal Cube67 system bus (pin 4 and pin 5)
- Us/4A (pin 2) and UA/4A (pin 1)
- 2 x OV (pin 3 and pin 6) bridged

CUBE67 SYSTEM BUS IN

- 6-pin M12 A-coded
- Internal Cube67 system bus (pin 4 and pin 5)
- Us / 4 A (pin 2) and UA / 4 A (pin 1)
- 2x 0 V (pin 3 and pin 6) bridged

THE SMALLEST ON THE MARKET

- Dimensions (L x W x H): 126 x 50 x 34.3 mm
- Weight: 215 g

IO-LINK MASTER PORTS

- 8 x IO-Link Master A/B with common ground
- Min. 400 µs cycle time with port synchronization
- Developed according to IO-Link V1.1.3
- Integrated standardized master interface
- 2A on each pin max. 4A per port



Your advantages

- Maximum flexibility thanks to multifunctional ports
- **Space-saving and lightweight** perfect for compact machine layouts
- Future-proof thanks to IO-Link technology
- Quick commissioning via pre-assembled connection technology



Cube system bus and power in one cable – ideal for robot applications



- 8 IO-Link master ports (Class A/B) or 16 digital inputs/outputs
- Multifunctional ports: Sensor supply, actuator supply (AUX), digital inputs/outputs, IO-Link
- Connections: 8 x M12 A-coded (5-pin), BUS IN/OUT via M12
- A-coded (6-pin)

Technical features

- Dimensions: $126 \times 50 \times 34.3$ mm
- Weight: 215 g
- Protection class: IP67 fully encapsulated plastic design for maximum robustness

System integration

- Compatible with Cube67+ bus nodes for PROFINET or EtherNet/IP
- Easy integration into existing Cube67+ installations





Highlights of the 8x Master

- IO-Link master according to IO-Link Spec V1.1.3
- Class A/B ports
- SIO mode (standard I/O)
- Data transfer rates COM1 (4.8 kBd), COM2 (38.4 kBd), COM3 (230.4 kBd)
- Max. 256 bytes of input and output data per module
- Data storage: Automatic backup of device parameters after replacing the **IO-Link** device
- Connection of the IO-Link device with 3- and 5-pin cable
- Port Qualifier Information (PQI)
- Current measurement

Cube67 Safety

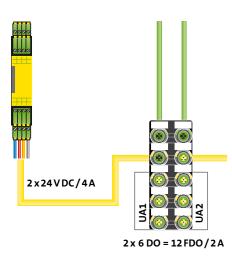
Integrate safe outputs into the Cube system

Decentralized installation concepts from Murrelektronik make it possible to achieve the highest safety standards for machines and applications.



Cube67 Safety Modules and Safety Relays

- Safely shutdown of 12 outputs per module
- Two safe voltage potentials





Install safety outputs easily and reliably into machines and applications with the Cube system.

We have K3 extension modules in our Cube system product portfolio that can be used to achieve Cat. 3 / Performance Level d.

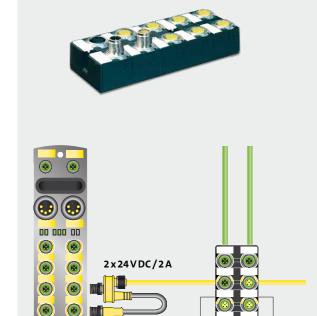
These modules have a separate voltage supply that can be connected to the safety devices and can be deactivated on the output side if necessary.

Cube67 Safety Modules and MVK Safety Field Bus Modules

Safe outputs

Combining the Cube system with safety or the MVK Metal Safety field bus module enables you to set up to twelve outputs that can be switched off via two separate voltage circuits.

- Cube modules are supplied with an active safe voltage supply via MVK Safety ProfiSafe
- No need for safety relays or additional energy supplies
- Add additional safe outputs by linking up the voltage circuits
- Safety outputs up to PL d / SIL 2



Cube67 Valve Manifold Safety Connection

A valve manifold connection can enable up to 16 safe outputs in four groups for the pneumatics. Here, you can drastically reduce installation times by using a cable module with multipole connector.

- Safely shut off the pneumatic area
- Up to 16 safe outputs on 4 voltage potentials
- Low installation costs by using cable module with multipole connector



Applications















Communication modules for distributed drives



Drives using the MOVIMOT® protocol, with a distributed installation across an installation or machine, are implemented in the Cube system via Cube module 56761 (Cube67+ DIO4 RS232/485 E 4xM12). They no longer have to be wired to the control individually. This saves time-consuming and costly parallel wiring.

Here, several drives in an installation communicate with the control through a single IP address or bus node name. This uses less addressing resources from the control so that a smaller control with a smaller number of IP addresses can be used in many cases. The flexible field bus connection of the Cube system ("Bus replacement without system replacement") allows the use of more cost-effective standard drives on the field level without a special field bus connection. This reduces the number of variants and hence makes standardization and planning easier.

The communication module also supports other serial devices such as RFID sensors, bar code scanners or printers. The module features two additional M12 slots with two multi-functional configurable inputs and outputs each. This facilitates easy integration of additional actuators and sensors into the installation next to the process.

Valve manifold connection

Valve terminals of various manifolds can be implemented into the distributed IO installation using a Cube module with a matching multipole connector. This reduces complex, time-consuming, costly and error-prone parallel wiring, and the entire interface level for valve terminal control in the control cabinet is no longer required. The Cube module for valve manifold activation is an expansion module; hence it supports connecting additional IO modules to it to expand the topology. Passively safe Cube modules for valve manifold control are available for applications that require safe deactivation of valves in order to protect man and ma-

In combination with safety relays, e.g. MIRO SAFE by Murrelektronik, up to four safe actuator circuits can be implemented that way. Blocks of valves can be deactivated safely. Murrelektronik offers Cube modules for valve terminals from Festo, Norgren, Aventix, SMC, Mac-Valve, Numatics, Vesta, Metalwork, Parker and others.



Of course the Cube67 Cable modules are not only good to connect indicator lights - they also support other sensors and actuators with up to 16 multi-functional configurable inputs or outputs. Cube67 Cable modules are available with different connection cable lengths and configurations, including open ended varieties.

Connection of indicator lights

Cube67 Cable modules are available for connecting indicator lights like Murrelektronik's Modlight. They feature a cable with an M12 connection that can be plugged in directly at the light stack. The lights are simply incorporated in the distributed installation via Plug & Play without any additional cabling. The interface level is not required, saving space in the control cabinet.



be done upwards or downwards as or, simply put: The module can count 300 kHz.

Signal pre-processing in the field



state and compares the obtained value switches a digital output. Counting can required. After reaching the comparison value, counter and output can be reset manually. The counter depth is 32 bits, to 2,147,483,647, with a speed of up to

M8 installation concept with 4-pole ports

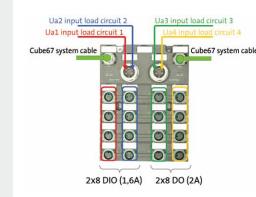
Space is limited in machines and installations. There are some particularly striking examples in handling, assembly, robot and linear technology, in addition to logistics and packaging machinery - every millimeter is valuable. Installation solutions in these areas are often implemented with compact M8 connectors. Therefore, Murrelektronik also offers Cube

modules for M8. Their compact design supports new and innovative installation concepts. The modules can be located even closer to the process while sensors and actuators can be connected with even shorter cables. That reduces cabling effort and ensures a good overview. One installation advantage is that Murrelektronik also offers M8 Cube modules with 4-pole ports. While there is only one pin available for digital data transmission in 3-pole ports, the 4-pole ports now enable processing of two signals. Thanks to this, devices such as pneumatic cylinder limit switches, two-point fiber sensors, light barriers with teach functionality, two-way valves or pressure switches as well as grippers can be connected directly with a single pre-fabricated connection cable.



Power module

When there are many high-power loads in close proximity, like a hydraulics application, the current requirement increases. Such areas can be integrated into the Cube system as well. For this purpose, additional power is supplied to this section of the Cube system: The Cube Power module can be supplied with power via two 7/8" connectors. It features outputs with a current of up to 2 A and can supply high-power loads. The data is transmitted via the Cube system cable as usual.



The integration of high-power sections simplifies machine installation as there is no parallel wiring and no terminal boxes required.

Another option to supply the standard modules with more power is an additional actuator power supply via a T-coupler. A separate additional actuator power supply with 4 A can be added anywhere in the system. It can be branched off from either an Extra Power distributor, from the bus node, or from the power supply in the control cabinet.



System Connection

Cube67/20 Interface Module DIO8

Art. No. 56450 564501*

*Power via Cube67 system cable

1/0

DI16

DI8

DI8

DI16 NPN

DI8 NPN

DI8 NPN

Digital Inputs

Cube67

Cube67+	Protocol	Art. No.
Bus Node	PROFIBUS	56521
	PROFINET	56526
	EtherCat	56527
	EtherNet/IP	56535

Cube67 Art. No. Description Diagnostic Web server and OPC-UA 56968 Gateway CONTRACTOR OF THE PARTY OF THE via Ethernet

Configurable 1/0 Description Art. No. Digital Inputs/ DIO16 8 x M12 C 0.5 A 56600 DIO16 8 x M12 E 1.6 A 56640 4 x M12 E 1 A DIO8 56631 DIO16 8 x M12 E 0.5 A 56601 DIO16/DO16 16 x M12 E 1.6/2 A 56641 DIO32 16 x M12 E 0.5 A 56642 DI016 8 x M8 E 4-pole 0.5 A 56625 DIO8 4 x M8 C 4-pole 0.5 A 56627

System

Connection

Cube20/67

Interface

Module

Art. No.

56140

Digital Inputs/ Outputs Safe Outputs Function Modules Configurable Digital Inputs/ Outputs **Analog Inputs Analog** Outputs

1/0

DIO8 DI8

DIO8 DI8

DIO8 DI8

DO6/DO6

DIO8

1/0

1/0

2 Zähler

V1.1.2

V1.1.3

DIO12 IOL4

DIO16 IOL8

DIO4 RS232/

422/485/

MOVIMOT®

1/0 Description Art. No. DIO16 8 x M12 E Hygenic Design (HD) 5660160 DIO8 4xM12EHD 5661160 DIO12 IOL4 8 x M12 E Cube67+ HD 5676660 DIO12 IOL4 V1.1.2 Description Art. No. 4 x M12 (I) E 56731

Description

TB Rail E (IP20)

Description

Description

4 x M12 C

8 x M12 Cube67+ E

8 x M12 Cube67+ E

4 x M12 E Cube67+

6 x M12 K3 E 2 A

TB Box E (extra terminals)

TB Box E

M16 E

Art. No.

56681

56691

56663

Art. No.

56605

Art. No.

56750

56766

56768

56761

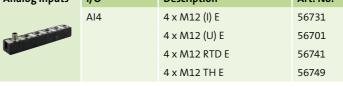
5668100

Safe

1/0

Description

Art. No.



1/0 Description Art. No. A04 56721 4 x M12 (I) E 4 x M12 (U) E 56711



Safe	1/0	Description	Art. No.
Outputs	DO8 C4XUa	Festo K3 C - CPV	5665003
T-ell	DO16 C 4 X Ua	Festo K3 C - CPV	56650
	DO16 C 4 X Ua	Festo - CPV (Sub-D25)	5665004
	D016 C 4 X Ou	Festo - MPL (Sub-D25)	5665005
D:-:t-1		, ,	
Digital Outputs	1/0	Description	Art. No.
Expansion	DO32 E	Aventics HF02/03-LG (Sub D-44)	5665617
Modules (E)	DO24 E	Aventics HF02/03/04-LG. Festo VTUG	5665606
Compact Modules (C)	DO8 E	Festo CPV (Sub D-9)	5665501
	DO16 E	Festo CPV (Sub D-25)	5665100
Cable 0.5m	DO12 E	Festo CPV (Sub D-15)	5665102
N. C.	DO16 E	Festo CPV-SC (Sub D-26)	5665103
	DO8 E	Festo MPA	5665502
	DO16 E	Festo MPA 32-S	5665118
	DO16 C 4 X Ua	Festo MPA	5665001
	DO24 E	Festo MPA	5665601
	DO32 E	Festo MPA-L (Sub D-44)	5665616
	DO24 E	Festo MPA-L (Sub D-25)	5665619
	DO16 E	Festo VTSA	5665105
	DO32 E	Festo VTSA	5665613
	DO16 E	MAC Valves (Sub D-25)	5665116
	DO16 E	Metal Work HDM	5665106
	DO24 E	Norgren VMIO	5665600
	DO24 E	Numatics Generation 2000	5665618
	D016 C 4 x Ua	SMC SY (New, metric,) SY	5665002
	D010 C 4 X 0u	(45F), S0700, SV, VQC, SQ, VQ, SJ, SX	3003002
	DO16 E	SMC SY (New, metric), SY (45F), S0700, SV, VQC, SQ, VQ, SJ, SX	5665113
	DO16 E	SMC SV, VQC (M), SY (45F), (M27, 26-pole)	5665114
	DO16 E	SMC SV, SX (45F), SY (45F),	5665120
	DO23 E	SMC SV, SY (45F), SX (45F)	5665604
	DO24 E	SMC SV, VQC (M), (M27, 26-pole)	5665607
	DO24 E	SMC SY (New, metric), SY (45F), S0700, VQC, SQ, VQ, SJ	5665614
	DO16	SMC/VTUG, 4xUa, Sub-D 25-pole, 0.6m	5665000
	DO16	Expansion Module open-ended wires, 1.5m	5665104
	DO16	SMC, Sub-D 25-pole, 0.6m, IP20 / Sub-D 60°	5665119
More variants on request			

AI = Analog Inputs AO = Analog Outputs

DI = Digital Inputs DO = Digital Outputs

Description

8 x M12 E

8 x M12 E

4 x M12 E

4 x M12 E

8 x M8 E

8 x M8 E

DIO = Configurable ports C = Compact Module

E = Expansion Module (I) = Current Signal

(U) = Voltage Signal TH = Thermocouple RTD = Resistance/Temperature IOL = IO-Link



M12 6-pole, Shielded, Cube System Cable



Male/Female 0°

Art. No.: 7000-46041-802xxxx







Male/Female 0° Food & Bev., V4A, PP, blue Art. No.: 7024-46041-523xxxx



M12 4-pole, Shielded, D-coded ETHERNET Cable



Male/Male 0°, green PUR

Art. No.: 7000-44511-796xxxx

Male/Male 90°, green PUR

Art. No.: 7000-44561-796xxxx

Male 0°/RJ45 Art. No.: 7000-44711-796xxxx

RJ45/RJ45 Art. No.: 7000-74301-796xxxx

M12 6-pole, External Cube Actuator Supply



Female 0°

Art. No.: 7000-15001-414xxxx



Female 90°

Art. No.: 7000-15021-414xxxx



Female 0°, shielded, Cube67 Safety short-circuit protected

Art. No.: 7000-15101-138xxxx



Male/Female 0°

Art. No.: 7000-46001-414xxxx



Male/Female 90°

Art. No.: 7000-46021-414xxxx



Male/Female 0° Cube67-Safety short-circuit protected

Art. No.: 7000-46045-138xxxx

7/8" 5-pole, Power Cable



Female 0°



Art. No.: 7000-78021-961xxxx



Female 90° Art. No.: 7000-78051-961xxxx



Male/Female 0°

Art. No.: 7000-50021-961xxxx

Cold junction compensation, Field-wireable



M12 0°, 4-pole Art. No.: 56945



M12 90°. 4-pole Art. No.: 56946

System Interface Connector



M12 male 0°, internal system connection Art. No.: 56947

M12 female 0°, with mounting base, internal system connection Art. No.: 56948



M12 male 0°, internal system connection Art. No.: 56949

M12 Bus Termination Connectors



6-pole, A-coded, Cube67 Art. No.: 7000-15041-0000000

Food & Beverage, PVC, V4A, gray Art. No.: 7014-15041-0000000

Food & Beverage, PP, V4A, blue Art. No.: 7024-15041-0000000



4-pole, B-coded

Art. No.: 7000-14041-0000000

Torque Wrench



M12 Torque Wrench set SW 13 Art. No.: 7000-99102-0000000

M8 Torque Wrench set SW 9 Art. No.: 7000-99101-0000000

xxxx = Cable length in cm (e.g.: 0100 = 100 cm)

T-coupler, Additional Cube67 Actuator Power Supply



M12 CUBE67/M12 Extrem POWER 4A Art. No.: 7000-46101-0000000



T-Coupler (Slim Line) Male 0° - female 0°/male M12 - M12, 2-pin

For connection to MVK Safety Art. No.: 7030-42612-0000000

Dummy Locks



Blind Cap M12 inside thread Art. No.: 56951 - VE 4 pcs



Blind Cap M12

Art. No.: 56952 - SU 4 pcs Art. No.: 58627 - SU 10 pcs Art. No.: 56455 - SU 100 pcs



Blind Cap M8 Art. No.: 3858627 – SU 10 pcs

F&B Screw Plug M12 V4A, Art. No.: 996086 - SU 4 pcs F&B Screw Cap M12 V4A, Art. No.: 996087 - SU 1 pcs

Panel Feed-through



M12 Panel Feed-through, 6-pole, A-coded, male/female, shielded

Art. No.: 7000-46111-0000000

Cube20 Potential Terminal Block (spring clamp terminals) Mounts directly on Cube20 or DIN rail



Cube67 Power Distributor

TO VALUE

Art. No.: 56078 Gray/gray/yellow/blue Art. No.: 56079

> Yellow/blue/yellow/blue Art. No.: 56080

Gray/gray/brown/blue

Active power distribution 4 x 4 A

1x 7/8" to 4x M12, 6-pole

Art. No.: 56955

Brown/blue/brown/blue Art. No.: 56081

4 x gray Art. No.: 56084

2 x brown/2 x blue Art. No.: 56109

2 x blue/2 x yellow Art. No.: 56110

Blue/yellow/brown/blue Art. No.: 56111

Slim line 2x35 push-in terminals

Art. No.: 56082

RJ45/M12 Adapter, D-coded ETHERNET



Connection Accessories

Art. No.: 7000-44671-0000000 90°

Art. No.: 7000-44681-0000000

Bearing rail adapter for I/O modules

Bearing rail adapter for I/O modules

Bearing rail adapter for

bus notes

(50 mm)

(30 mm)

Art. No.: 56961

Art. No.: 56962

Art. No.: 56963

Label Plates



Label plates, 20 x 8 in a set of 20 pcs Color white

Art. No.: 55318

Label plates, framed, 20 pcs Color yellow Art. No.: 55316

Grounding Strap



For M4

Length = 100 mm

Art. No.: 4000-71001-0410004

For further variants and accessories, see our online shop ▶ shop.murrelektronik.com



Links and Useful Websites

Find more information about Cube67 on our website, in our online shop or on our social media channels by clicking on the links or scanning the QR codes with your smartphone.



Product Videos

The modular field bus I/O system www.murrelektronik.online/modular-fieldbus



Cube67 Diagnostic-Gateway www.murrelektronik.online/diagnostic-gateway





Product Tutorials www.murrelektronik.online/tutorials





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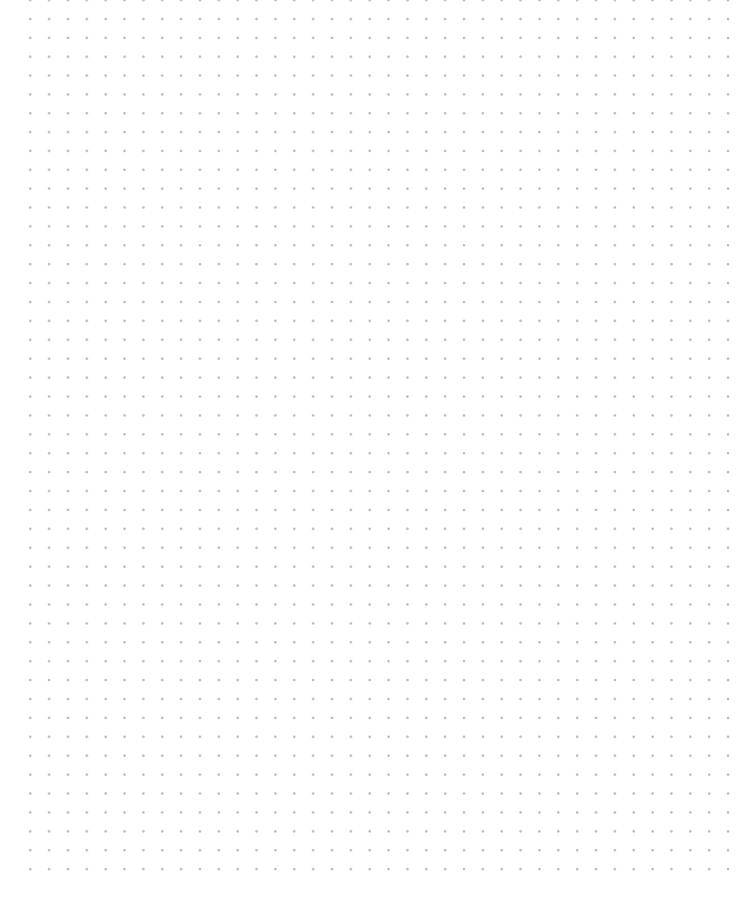


Online Shop

Technical downloads, data sheets, installation instructions, manuals, and approval information. www.murrelektronik.online/IO-systems



Notes



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Our company embraces social responsibility in all aspects of our business activities. Our brochures are printed using environmentally friendly production techniques and products.



