

16 digital inputs

The digital DI2-16 module enable sampling of digital inputs having TTL/CMOS or 24 V logic levels. The level can be set separately for each group of eight inputs. The groups are jointly isolated from the system.

Highlights

- Galvanically isolated 4 Bit groups
- Configurable for 5 V or 24 V level (of 8 Bit groups)



CRXT/DI2-16 (Fig. similar)

imc CRONOS-XT - Maximizes flexible modularity

An imc CRONOS-XT system is composed of a base unit and one or more imc CRONOS-XT modules. The imc click mechanism offers a mechanically strong connection between several imc CRONOS-XT modules. At the same time, the "click" establishes an electrical connection to the system bus and the power supply.



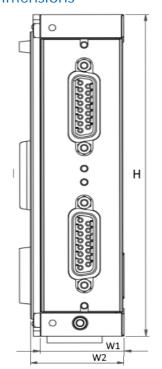
Overview of available variants

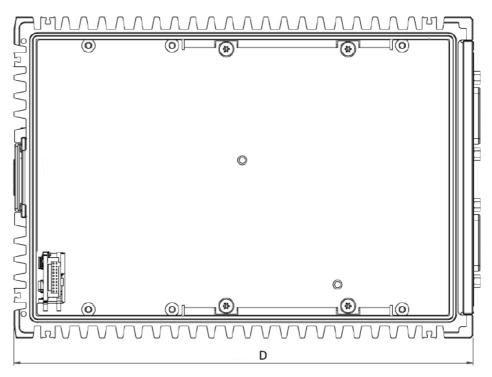
Order Code	Signal connections	power consumption	weight	housing	article no.
CRXT/DI2-16	DSUB-15		0.7 kg	XT1	11100029

Technical Data Sheet



Dimensions





Shown in standard operating orientation: housing type XT1

Housing type:	XT1	XT2	XT3	XT4	Remarks
W: Width in mm	30.5	61	91.5	116.9	W1: modular spacing (effective stacking width)
	34	64.5	95	120.4	W2: complete width
H: Height in mm	130				
D: Depth in mm	186.5				

Sealing, IP rating and environmental specs

A single CRXT slice cannot achieve an IP protection level at first because it is functionally open at the side. The specified specifications are always only valid for a complete in a controlled environment clicked (closed) CRXT system. Only after it has been combined with a CRXT base unit (plus power module), CRXT slices if applicable, and the final handles to form a CRXT system can an evaluation be made. The specification for shock, vibration and IP degree of protection applicable to the entire device is then derived from the weakest specification of the CRXT slices used in this combination. They assume that the individual CRXT slices are each mounted in conjunction with the additional stabilizing interconnect brackets (included in the standard accessories supplied).

According to IEC 60529 the Ingress Protection (IP) rating refer to protection classes provided by a housing, the protection of the electrical parts within the housing shell. If all functionally accessible contacts of the sockets are also to be protected, the corresponding plugs must be connected to all sockets. In many cases, a protective cover can also be used alternatively on unused sockets.

Technical Data Sheet



Included accessories

Sealing Caps and mounting accessories			
2x ACC/CAP-DSUB-15-IP67	C/CAP-DSUB-15-IP67 Sealing Cap IP67 for DSUB-15 sockets 1350034		
2x CRXT/BRACKET-CON	interconnect brackets, intended for increased stability	11100040	

Miscellaneous

Certificates and calibration protocols: Detailed information on certificates supplied, the specific contents, underlying standards (e.g. ISO 9001 / ISO 17025) and available media (pdf etc.) can be found on our website, or you can contact us directly.

Getting started with imc CRONOS-XT (one copy per delivery)

Optional accessories

· ·		
DSUB-15 plug (solder) IP67		
CRXT/DSUB15M-IP67	IP67 DSUB-15 plug male 11100073	
DSUB-15 plug (IP65)		
ACC/DSUBM-DI4-8-IP65	IP65 DSUB-15 plug with screw terminals for digital inputs	13500221
Dust protection		
ACC/CAP-DSUB-15	dust protection cap for DSUB-15 13500339	
Miscellaneous		
ACC/DSUBM-LOCKING-BOLT-L	J 5 (1 /	13500327
	For the slices with DSUB-15 sockets, the sealed terminal plugs	
	ACC/DSUBM-xxx-IP65 must be used - regardless of the sealing properties:	
The simple standard plug (ACC/DSUBM-xxx without suffix [-IP65]) have		
	shorter locking screws and therefore cannot be fixed to CRXT slices.	
	However, they can be retrofitted with the long bolts. With long bolts: only	
	for CRXT, with short standard bolts: only for CRFX, CRC, C-SERIE etc.	

Technical Data Sheet



Technical Specs - DI2-16

Parameter	Value typ.	min. / max.	Remarks	
Channels	16		groups of 4 Bit with common ground referengalvanic isolation between groups	
Input voltage level			configurable globally for 8 Bit at DSUB using the "LEVEL" pin:	
	TTL		"LEVEL": Jumper to "LCOM"	
	24 V		"LEVEL": unconnected	
Max input voltage	5.5 V		TTL mode	
	30 V		24 V mode	
Input configuration	differential		groups of 4 Bit galvanic isolation between groups of 4 Bit	
Isolation strength	±150 V		to system ground (housing, CHASSIS, PE) and between groups of 4 Bit (tested ±200 V)	
Switching time			edge detection;	
HIGH-LOW	34 µs	130 µs	over entire temperature range	
LOW-HIGH	3 µs	30 µs		
Additional system delay	typ. 400 μs ±100 μs		delay from input transition to changing state available in imc Online FAMOS	
Input current		max. 500 μA		
Switching threshold				
TTL (5 V)	$V_{Lmax} = 0.8 V$	V _{Hmin} = 2.0 V		
24 V	V _{Lmax} = 5.0 V	V _{Hmin} = 8.0 V		
Internal supply voltage, available at user pin "HCOM"	5 V max. 100 mA		isolated reference ground of both "HCOM" and "LEVEL" is "LCOM"	
Terminal connection	DSUB-15 / 8 Bit		ACC/DSUBM-DI4-8	