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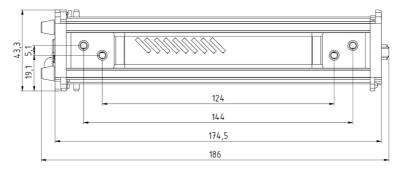




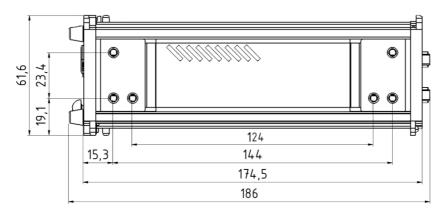
1. imc CRONOSflex (CRFX)

A CRONOS*flex* system is composed of a base unit and one or more imc CRONOS*flex* modules. These modules are designed to be directly connected to one another.

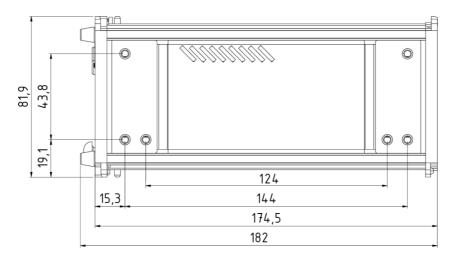
The following overview illustrates three different sizes of the imc CRONOS flex measurement modules. All imc CRONOS flex measurement modules interlock with each other once clicked together. A block of modules thus overlaps in its outer dimensions and is narrower than the sum of its individual modules (43.3 + 43.3 + ...).



imc CRONOSflex measurement modules e.g. CRFX/LV3-8, CRFX/ISO2-8, CRFX/DCBC2-8



imc CRONOSflex measurement modules e.g. CRFX/UNI2-8, CRFX/DCB2-8, CRFX/B-8

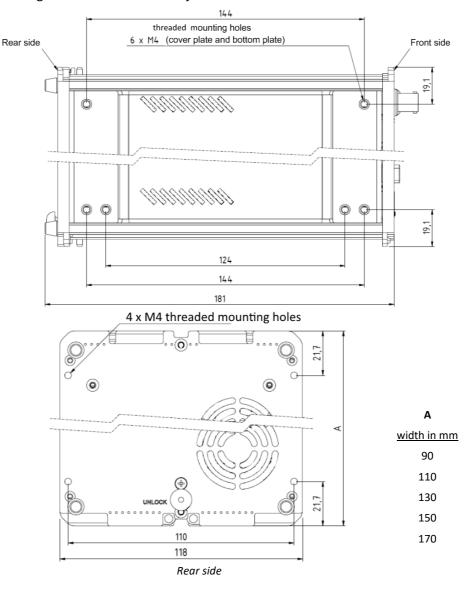


imc CRONOSflex measurement modules e.g. CRFX/HV2-4U, CRFX/HV2-2U2I, CRFX/HISO-8



Base units dimensions and configuration options						
Dimensions (W x H x D ir	n mm)	90 x 118 x	180 (stand	ard, withou	ut any additional conf	iguration options)
Ex factory configuration	options of	• Multi-IO	1	adds 40 mm to the width		
base unit			DI16-DO8-ENC4 orDI8-DO8-ENC4-DAC4			
		1 '	ial interface, bus interface adds 20 mm to the width			
Possible combinations						
fieldbus interface 1	fieldbus i	nterface 2	fieldbus ir	nterface 3	Multi-IO	width in mm
-		-	-		-	90
✓		-	-		-	110
✓	✓		-		-	130
✓	✓		✓	,	-	150
-	-		-		✓	130
✓	-		-		✓	150
✓	✓		-		✓	170

The following drawings show the imc CRONOSflex Base Unit:



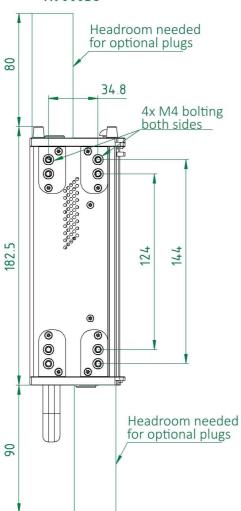


Power Handle

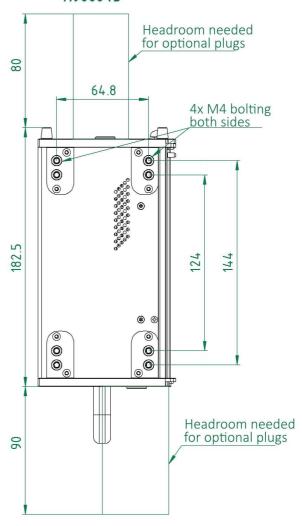
The Power Handle is equipped with M4 bolting 144 mm apart from each other. Only the interconnect bracket CRFX/BRACKET-CON-GR2-O (11900076) can be used to reinforce the Click Mechanism of the Power Handle.

The following drawings show the Power Handle:

CRFX/HANDLE-POWER 11900058

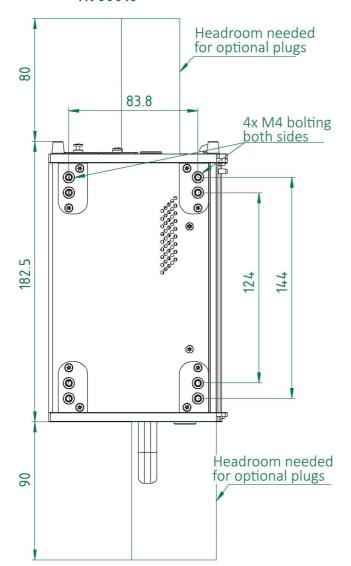


CRFX/HANDLE-UPS-L 11900043

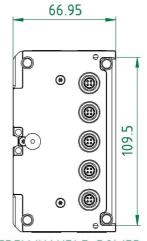




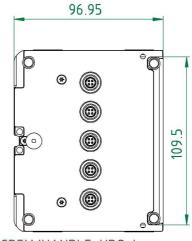
CRFX/HANDLE-LI-IO-L 11900010



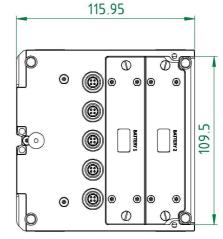
Rear side:



CRFX/HANDLE-POWER



CRFX/HANDLE-UPS-L



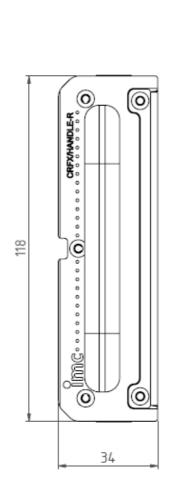
CRFX/HANDLE-LI-IO-L

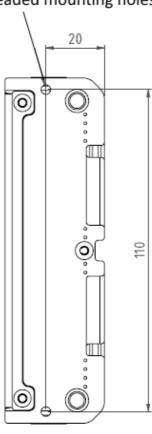


The following drawings show the Handle for imc CRONOS flex modules:

The left and the right handle is equipped with M4 bolting 144 mm apart from each other. Only the Interconnect Bracket CRFX/BRACKET-CON-GR2-O can be used to reinforce the Click Mechanism.

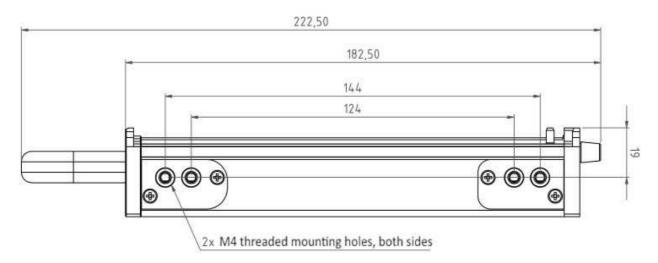
2 x M4 threaded mounting holes





front side

rear side





1.1 Back Panel Mounting Bracket (CRFX/BRACKET-BACK)

Function: Module mounting via back panel

Angle: 90° angular Attachment: 2 M4 screws

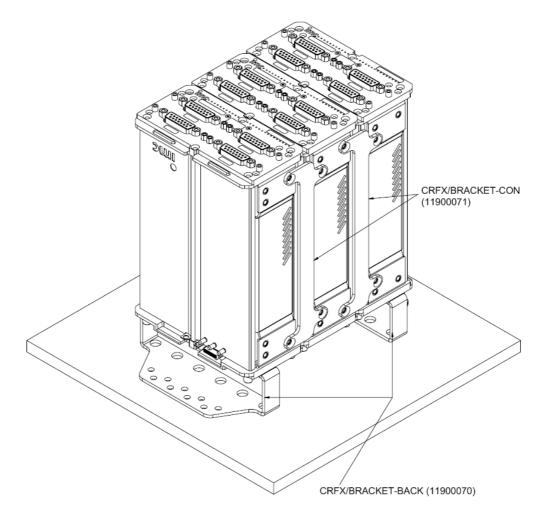
Properties:

This angular mounting bracket: CRFX/BRACKET-BACK is designed for installing imc CRONOSflex modules on a flat surface. This bracket must be installed on the

110

back panel: imc CRONOSflex module (GR2)

module's back panel. Due to the tight spacing between the block of modules and the flat surface, the modules require the **special accessory:** 90° angular LEMO and RJ45 plug. The distance from the back panel of the module to the flat surface is: 35 mm.



Two Back Panel Mounting Brackets are necessary to install the modules in the way shown.

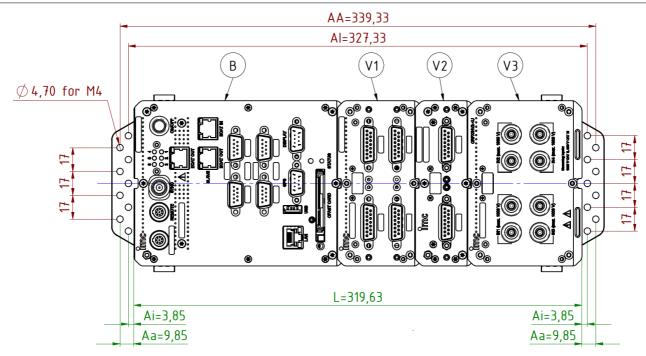
Included accessories:

1x back panel mounting bracket

2x cylinder screws DIN 7984 M4x8

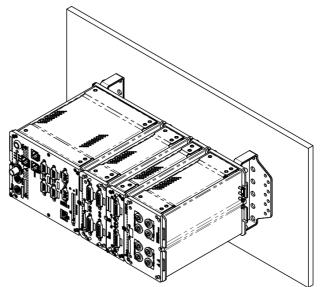
Order Code: CRFX/BRACKET-BACK article number: 11900070





Legend:	
n	number of modules (including base unit)
0	overlap (=6.05 mm) of clicked modules
В	width of the base unit
Vx	width of a single measurement module used
Aa	distance between the outer mounting hole to the module edge (=9.85 mm)
Ai	distance between the inner mounting hole to the module edge (=3.85 mm)

distance between outer mounting holes distance between inner mounting holes



Formulas to determine the distance between the mounting holes

$$AI = 2 * Ai + (L - (n - 1) * O) = 2 * Ai + ((B + V1 + V2 + V3... + Vn) - (n - 1) * O)$$

$$AA = 2 * Aa + (L - (n - 1) * O) = 2 * Aa + ((B + V1 + V2 + V3.. + Vn) - (n - 1) * O)$$



AA

Example

- B: CRFX base unit with three additional fieldbus interfaces; width of single base unit without option 3° : 90 mm, additional space required for each fieldbus interface: 20.32 mm $\rightarrow B = 90 + 3 * 20.32 = 150.96mm$
- V1: CRFX module GR2 (e.g. CRFX/UNI2-8) with a width of V1 = 61.62 mm
- V2: CRFX module GR1 (e.g. CRFX/ISO2-8) with a width of V2 = 43.3 mm
- V3: CRFX module GR3 (e.g. CRFX/HV2-2U2I) with a width of V3 = 81.9 mm
- AA = 2 * 9.85 + ((150.96 + 61.62 + 43.3 + 81.9) (4 1) * 6.05)mm = 339.33mm
- AI = 2 * 3.85 + ((150.96 + 61.62 + 43.3 + 81.9) (4 1) * 6.05)mm = 327.33mm



1.2 Mounting Bracket 180° (CRFX/BRACKET-180)

Function: Mounting imc CRONOSflex

modules on a flat surface

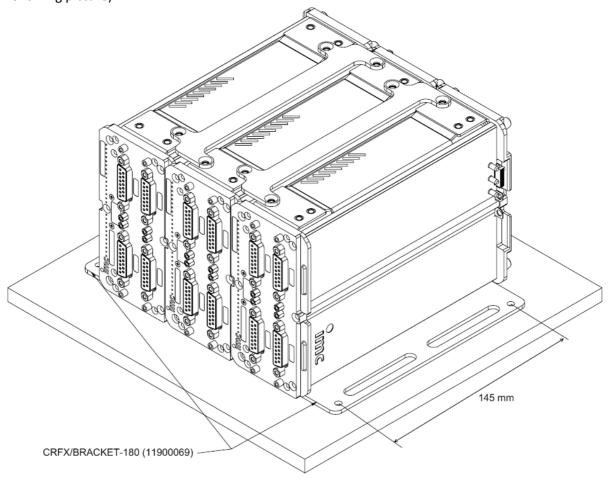
Angle: 180° flat

Attachment: 2 to 4 M4 screws

Properties: CRFX/BRACKET-180

An imc CRONOSflex system is composed of a imc CRONOSflex Base Unit and one or more imc CRONOSflex measurement modules. These modules are designed to be directly connected to one another.

The imc Click Mechanism and aluminum housing provide a firm mechanical and electrical connection (electrical connection via the 20-pin module connector on the side panels of each module). Such a module block can be installed on a flat surface by means of two mounting brackets (CRFX/BRACKET-180). Wall mounting is also possible using these flat brackets. The mounting brackets must be installed on the bottom and/or cover plates of the leftmost and rightmost module (see the following picture).



Included accessories:

1x mounting bracket 180°

4x recessed countersunk flat head screws (M4x6)

Order Code: CRFX/BRACKET-180 article number: 11900069



1.3 Mounting Bracket 90° (CRFX/BRACKET-90)

Function: Mounting of imc CRONOSflex modules on a

flat surface

Angle: 90° angular

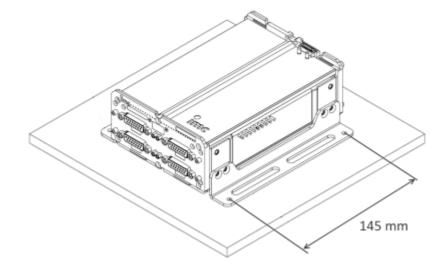
Attachment: 2 to 4 M4 screws

Properties:

These angular brackets are designed for installation on a flat surface. Attachment is achieved with two or four M4 screws into the module's cover and/or bottom plate.

For wall mounting, be careful regarding the number of modules clicked together. It is recommended to reinforce the click mechanism with the Interconnect Bracket.





Included accessories:

1x mounting bracket 90°

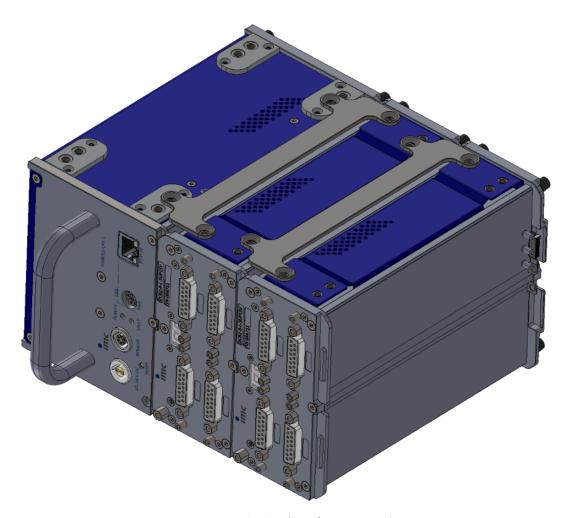
2x recessed countersunk flat head screws M4x6

Order Code: CRFX/BRACKET-90 article number: 11900068



1.4 Interconnect Bracket

The Interconnect Bracket reinforces the imc Click Mechanism. The imc Click Mechanism provide a firm mechanical and electrical connection. The Interconnect Bracket must be installed on the cover plate and/or the bottom plate of the imc CRONOS*flex* module.



Interconnect bracket (CRFX/BRACKET-CON)

1.4.1 Interconnect Bracket CRFX/BRACKET-CON(-GR2-O)

Function: coupling of modules, reinforcement of click mechanism

Angle: 180° flat Attachment: 4 M4 screws

Properties:

Compatibility issues may require two different Interconnect Brackets. If the 124 mm thread is not provided on your module, then please use CRFX/BRACKET-CON-GR2-O.

Included accessories (CRFX/BRACKET-CON, CRFX/BRACKET-CON-GR2-O):

1x interconnect bracket

4x recessed countersunk flat head screws M4x6

Orer Code: CRFX/BRACKET-CON article number: 11900071

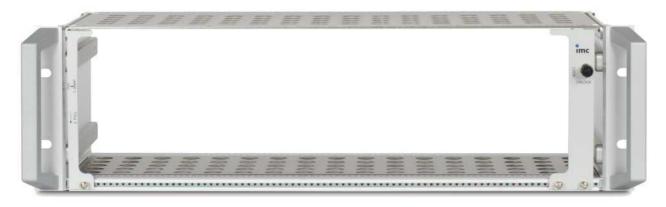
CRFX/BRACKET-CON-GR2-O article number: 11900076



1.5 19" RACK (CRFX/RACK)

When clicked together in a stack imc CRONOS*flex* Modules can be mounted in a special 19" rack (CRFX/RACK19"). Any stack of modules must be installed on the left end of the CRFX/RACK. The remaining space on the right side is then covered with special plates ("front cover panel"). The width of each module is stated in its respective data sheet. A block of modules thus overlaps in its outer dimensions and is narrower than the sum of its individual elements (43.3 + 43.3 + ...).

The imc 19" rack is designed for an imc CRONOS*flex* system respectively module stacks having a maximum width of 405 mm.



CRFX/RACK 19" rack for imc CRONOSflex Modules (article number: 11900066)

Assembly



Assembly

Do not try to click modules together while they are already in the RACK.



Both mounting elements must be installed after inserting the stack.

Each of the two elements is equipped with a peg on its upper edge. These pegs must be set in a hole in the CRFX 19" RACK's upper rail. Use the respective hole which directly corresponds to the imc CRONOSflex module's position.

Tighten the screws on the bottom end in order to position and secure the plates correctly.



Right mounting element





Optional accessories

CRFX/RACK-BP-12,4mm	front panel 12.4 mm (extra small) for empty slot	119000243
CRFX/RACK-BP-20mm	front panel 20 mm (small) for empty slot in the RACK	119000077
CRFX/RACK-BP-40,3mm	front panel 40.3 mm (middle) for empty slot	119000078
CRFX/RACK-BP-81mm	front panel 81 mm (big) for empty slot in the RACK	119000079

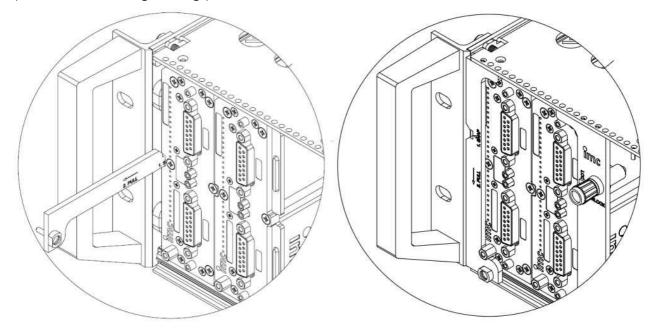
Disassembly



Disassembly

First unscrew the fasteners. Then carefully pull the entire module stack out of the rack.

The left mounting element can be used to aid in removing the module stack (observe the following drawings):



The left mounting element is inserted into the gap as illustrated above.

Once the right mounting element has been removed, it is possible to hold the module stack on the right side in your hand. Then carefully pull the stack out of the rack, holding it on both sides.

Included accessories:

1x CRFX/RACK

1x left mounting element

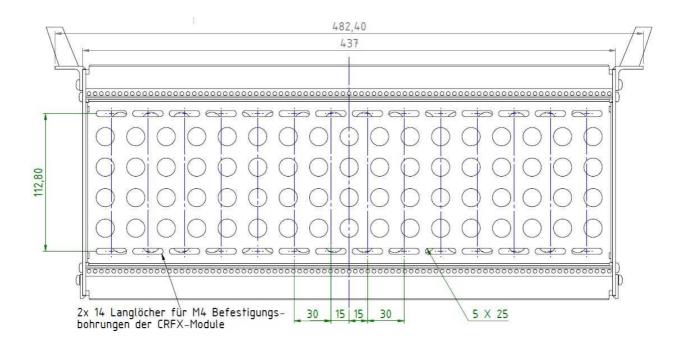
1x right mounting element

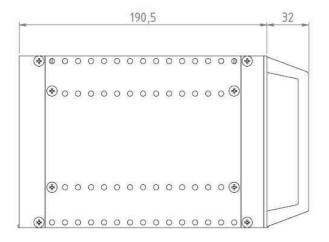
Order Code: CRFX/RACK article number: 11900066



Dimensions

Order Code: CRFX/RACK article number: 11900066





Parameter	Value	Remarks
Dimensions w/o handles	437 x 133 x 190.5 mm	WxHxD



1.6 1/2-19" RACK (CRFX-1/2-19"-RACK)

When clicked together in a stack imc CRONOS flex Modules can be mounted in a special 19" rack (CRFX/ 1/2 RACK 19"). Any stack of modules must be installed on the left end of the CRFX/RACK. The remaining space on the right side is then covered with special plates ("front cover panel"). The width of each module is stated in its respective data sheet. A block of modules thus overlaps in its outer dimensions and is narrower than the sum of its individual elements.

The half imc 19" rack is designed for an imc CRONOS*flex* system respectively module stacks having a maximum width of 200 mm.



CRFX/1/2-19"-RACK 19" rack for imc CRONOSflex Modules(article number: 11900106)

Assembly



Warning

Do not try to click modules together while they are already in the RACK.



Left mounting element

Both mounting elements must be installed after inserting the stack.

Each of the two elements is equipped with a peg on its upper edge. These pegs must be set in a hole in the CRFX 19" RACK's upper rail. Use the respective hole which directly corresponds to the imc CRONOSflex module's position.

Tighten the screws on the bottom end in order to position and secure the plates correctly.



Right mounting element

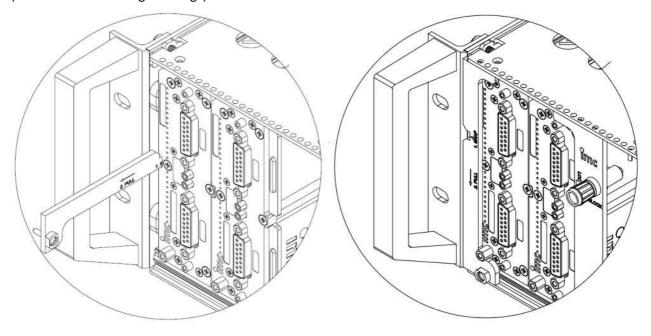


Disassembly



First unscrew the fasteners. Then carefully pull the entire module stack out of the rack.

The left mounting element can be used to aid in removing the module stack (observe the following drawings):



The left mounting element is inserted into the gap as illustrated above.

Once the right mounting element has been removed, it is possible to hold the module stack on the right side in your hand. Then carefully pull the stack out of the rack, holding it on both sides.

Included accessories:

1x CRFX/1/2-19"-RACK 1x left mounting element

1x right mounting element

Order Code: CRFX/1/2-19"-RACK article number: 11900106



1.7 Mounting Bracket RACK (CRFX/BRACKET-RACK)

Function: angular bracket for 19" RACK

Attachment: 2 to 4 M4 screws

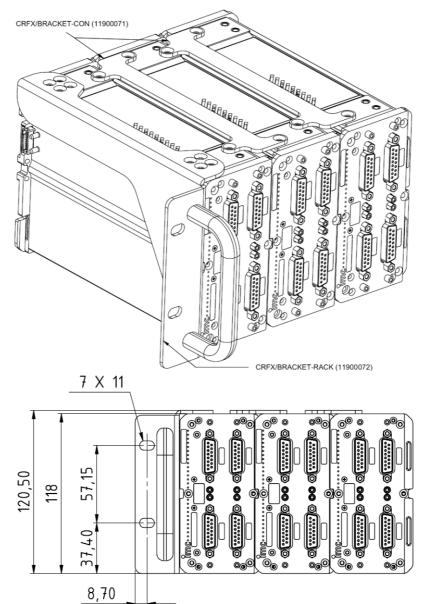
Properties:

This angular bracket is designed for the purpose of direct installation of a module block in a 19" RACK. The attachment is accomplished by means of either two or four M4 screws into the module's cover plate. For the reinforcement of the Click Mechanism, the <u>interconnect bracket</u> is recommended (shown in the drawing below).



Note

A total weight of a module block should not be more than 3 kg is not allowed!



Included accessories:

1x mounting bracket-rack

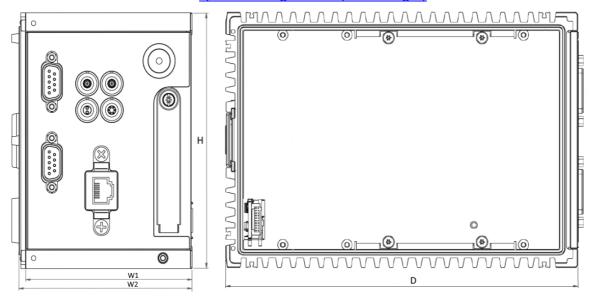
4x recessed countersunk flat head screws M4x6

Order Code: CRFX/BRACKET-RACK article number: 11900072



2. imc CRONOS-XT

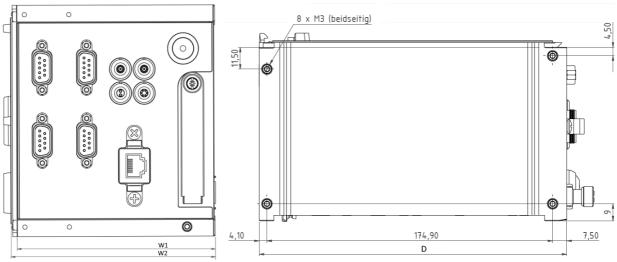
An imc CRONOS-XT (CRXT) system is composed of a base unit plus a power supply module and one or more CRXT modules as well as the system locking handles (left and right) 22.



CRXT Base Unit shown in standard operating orientation: housing type XT3

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				

The following figure (right) shows the CRXT base unit from above or below.

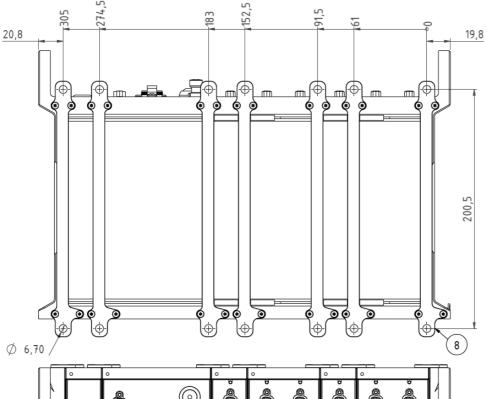


CRXT Base Unit: housing type XT4

The CRXT base units can be equipped with extra options: such expansions can be implemented in a maximum of three modules, which can only be ordered as factory options and are installed permanently. The base unit housings start with the type XT3, which can be equipped with a maximum of one extension. Starting with the second extension (XT4), each additional option widens the base unit by 25.4 mm. The available options are: Automotive buses: CAN FD, LIN

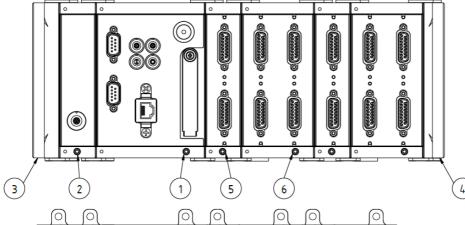


2.1 Interconnect Bracket (CRXT-BRACKET-CON-xx)

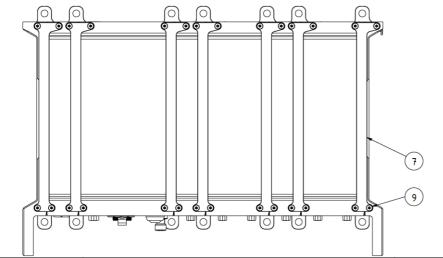


The connecting or stabilizing brackets (plates) for CRXT serve to increase the stability and robustness of the click mechanism between the slices.

They are attached at the top (item 7) and bottom (item 8) between the modules, whereby the lower plate (item 8) opens up additional fastening options on a base plate.



The stabilizing bracket (CRXT/BRACKET-CON, pos. 7) is included in the standard delivery.



Four screws are always included with each stabilizing bracket pos. 9 (M3 screws). These screws must be tightened to a torque of approx. 1 Nm.

Item no.		article no.
1	CRXT-2000 Base Unit	11100001
2	CRXT/POWER, power supply	11100025
3	CRXT/HANDLE-L (left)	11100022

2022-08-16



Item no.		article no.
4	CRXT/HANDLE-R (right)	11100021
5	CRXT/LV3-8	11100018
6	CRXT/UNI2-8	11100015
7	CRXT/BRACKET-CON	11100040
8	CRXT/BRACKET-CON-BOT with additional fastening options on a base plate	11100084
9	self-locking screws M3x6	

Rubber bumper

On all of the imc CRONOS-XT modules the blue rubber bumper can be removed and reinstalled 125 just like the modules of the imc CANSASflex series.



Before fastening stabilizing brackets

In order to fix the connecting brackets, the rubber bumper **must** be removed.

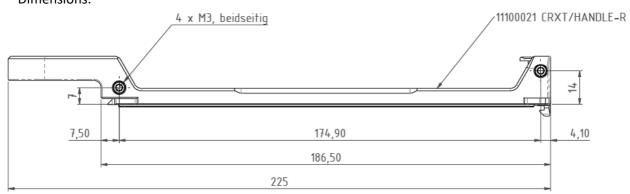
Handle-Set

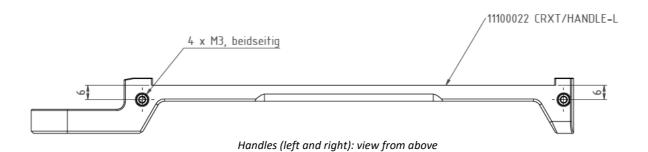


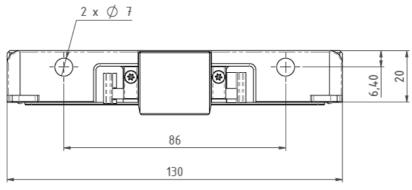


2.2 Handle-Set (L + R)

Function: handle and sealing cover left and right Dimensions:







locking rocker (rear side of the handle)

Included accessories:

accessories are not necessary, the handles can be attached without the use of tools

Order Code		article no.
CRXT/HANDLE-R	handle and sealing cover right	11100021
CRXT/HANDLE-L	handle and sealing cover left	11100022



3. imc CANSASflex, imc BUSDAQflex

As a CAN-Bus-based measurement engineering tool, the imc CANSASflex series offers a wide selection of measurement modules which process and digitize sensor signals and output these as CAN-messages.

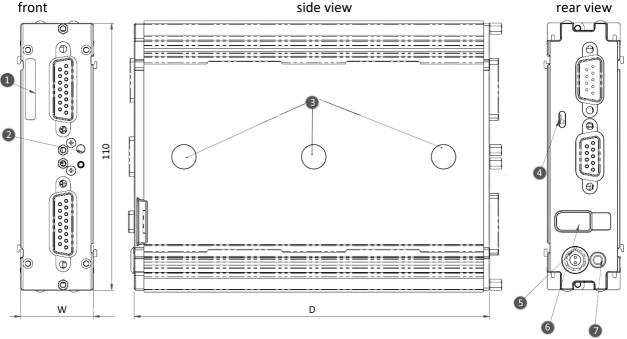
The modules of the imc CANSAS*flex* series (CANFX) can be joined together mechanically and electrically by means of a latching ("click") mechanism, without the use of any tools nor the need for any extra cables, and also allows the CAN-logger imc BUSDAQ*flex* (BUSFX) to dock on directly. Depending on the module type, they are available in either long (L-), short, or both housing versions.

Click-mechanism:

- Modules joinable to module-blocks: mechanically and electrically connected (CAN and Power)
- No tools or additional cabling required
- With guide grooves, magnetic catches and locking slider
- Both short and long housing versions joinable:
 with electrical connection: align on rear side; mechanically only: align on front side

Mounting:

- Mountable by means of recessed threaded holes (M3), either individually or jointly as a block
- Rubber bumper rails providing secure placement in laboratory settings



Shown in standard operating orientation: housing type L0; width (W) = 30 mm.

Housing type	S0	S1	S2	LO	L1	L2
W: Width	30 mm	50.3 mm	70.6 mm	30 mm	50.3 mm	70.6 mm
D: Depth	93 mm, with two magnets			146.5 m	nm, with three r	nagnets

Legend:

1: Serial number label

2: Status LED (blue / red)

3: magnet

(depending on model)

4: adjustable CAN terminator

5: supply socket (LEMO)

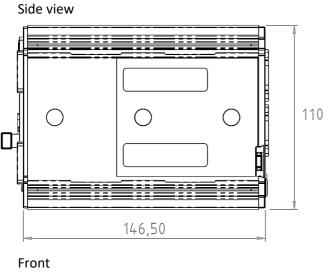
6: locking slider CAN/supply

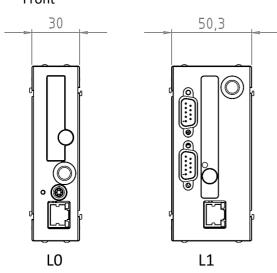
7: ground connection M3

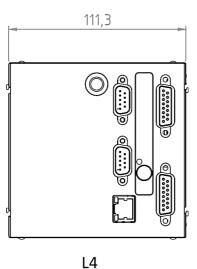


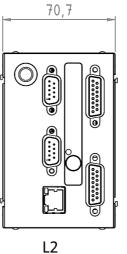
Detailed technical specs of each module is provided in separate technical data sheets.

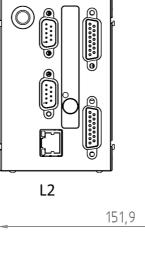
Mechanical drawings with dimensions of the available imc BUSDAQflex variants

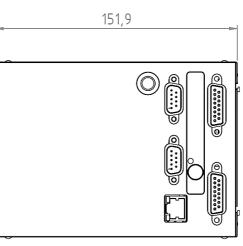












L6

91

L3



On all of the imc CANSAS flex series modules (CANFX) and on all imc BUSDAQ flex devices (BUSFX) the rubber bumpers can be removed. In order to access the mounting holes the rubber bumpers must first be removed.



Order Code: CANFX/RUBBER-1M article number:

12500029 rubber bumper, 1 m (blue silicone strip)



3.1 Mounting Bracket 180° (CANFX/BRACKET-180-XX)

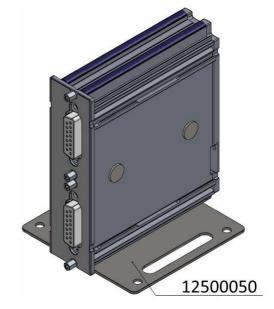
Function: mounting on a flat surface

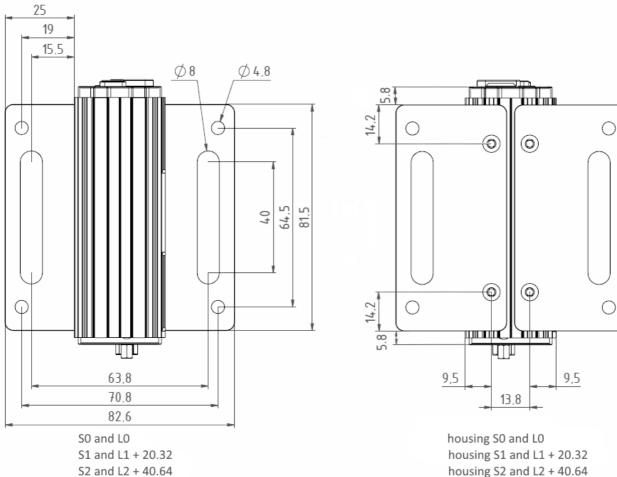
Angle: 180° flat

Properties:

These mounting elements are ideal for mounting a module on a flat surface.

For wall mounting, be careful regarding the number of modules clicked together.





Included accessories CANFX/BRACKET-180-S (12500050):

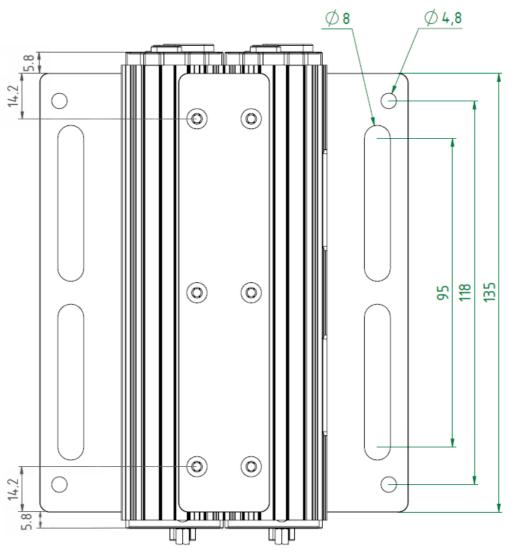
1x mounting bracket 180°

2x recessed countersunk flat head screws M3x5



Function: mounting on a flat surface

Angle: 180° flat



Included accessories (with 12500050, 12500052):

1x mounting bracket 180°

2x recessed countersunk flat head screws M3x5

Order Code: article number:

CANFX/BRACKET-180-S 12500050 for short 23 imc CANSAS flex modules (housing "S") CANFX/BRACKET-180-L 12500052 for long 23 imc CANSAS flex modules (housing "L")



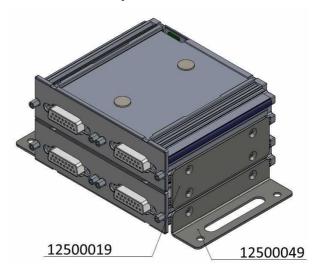
3.2 Mounting Bracket 90° (CANFX/BRACKET-90-XX)

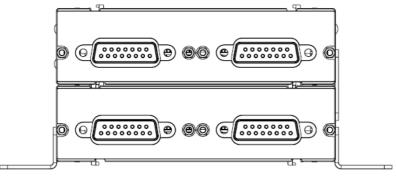
Function: mounting on a flat surface

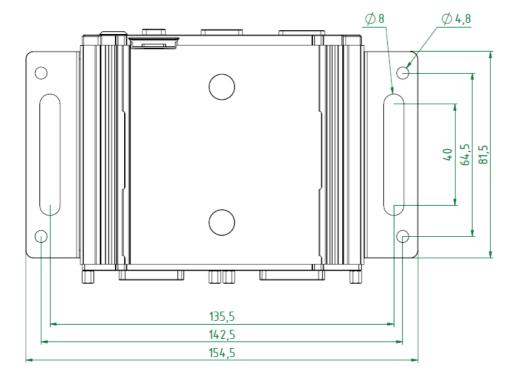
Angle: 90° angular

Properties:

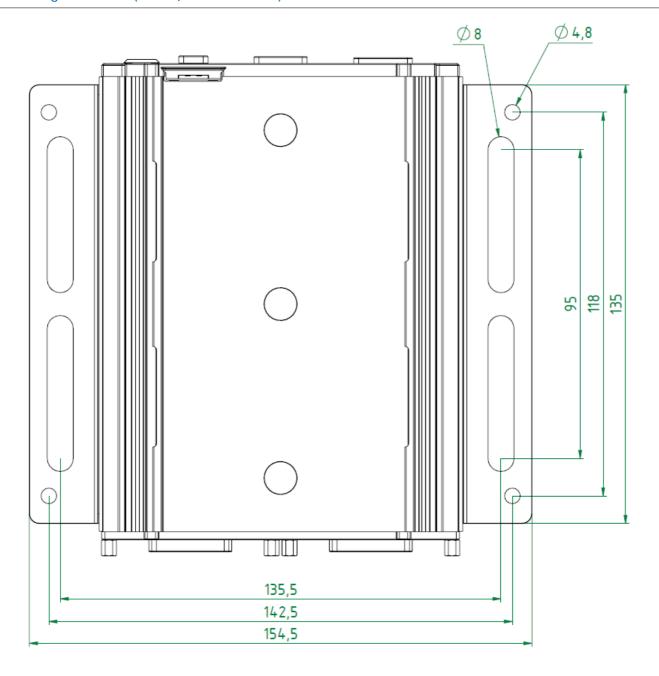
These mounting elements are ideal for mounting a module on a flat surface. The mounting of the modules can be realized with two M3 screws at the module and two on the surface.











Included accessories (with 12500049, 12500051):

1x mounting bracket 90°

2x recessed countersunk flat head screws M3x5

Order Code: article number:

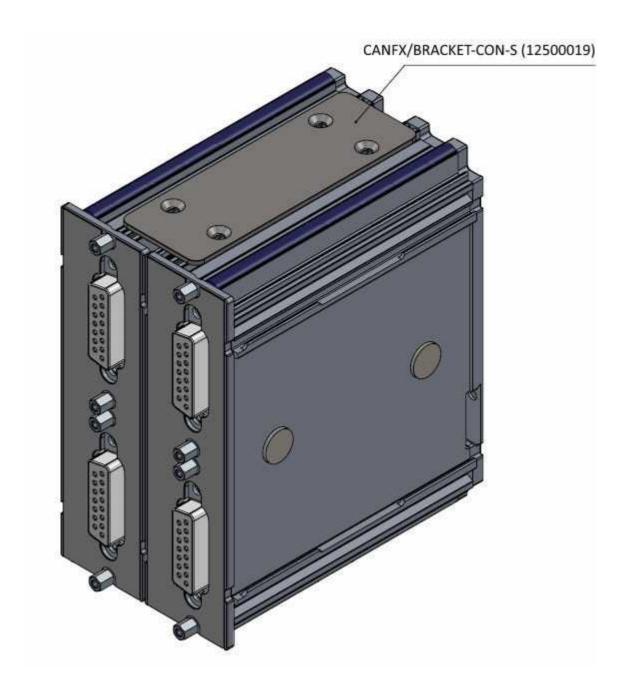
CANFX/BRACKET-90-S 12500049 for short 23 imc CANSAS flex modules (housing "S") CANFX/BRACKET-90-L 12500051 for long 23 imc CANSAS flex modules (housing "L")



3.3 Interconnect Bracket (CANFX/BRACKET-CON)

Function: connection with the module, for reinforcing the Click Mechanism

Angle: 180° flat



Included accessories:

1x interconnect bracket

4x recessed countersunk flat head screws M3x5

Order Code: article nubmer:

CANFX/BRACKET-CON-S 12500019 for short 23 imc CANSAS flex modules (housing "S") CANFX/BRACKET-CON-L 12500020 for long 23 imc CANSAS flex modules (housing "L"), as well as for imc BUSDAQ flex (BUSFX, housing "L")

Handle-Set (L + R)

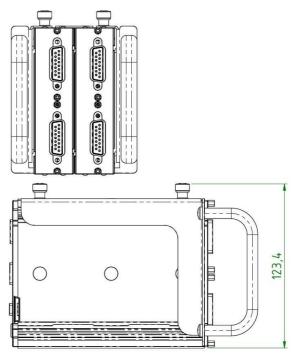


Function: handle left and right

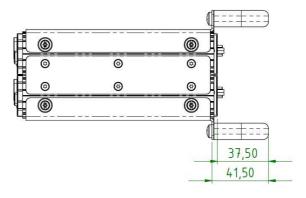
Properties:

The handles are attached to the modules without the use of tools.









Included accessories:

accessories are not necessary, the handles can be attached without the use of tools

Order Code: article number:

CANFX/HANDLE-S 12500027 for short 23 imc CANSAS flex modules (housing "S") CANFX/HANDLE-L 12500028 for long 23 imc CANSAS flex modules (housing "L"), as well as for imc BUSDAQ flex (BUSFX, housing "L")

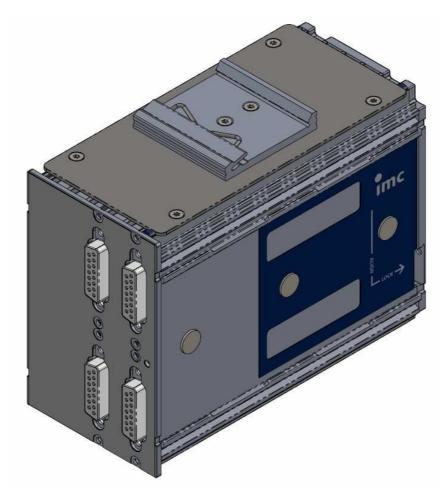


3.5 Mounting to DIN-Rail (CANFX/BRACKET-DIN)

Function: mounting to DIN-Rail

Properties:

The mounting plate for the DIN Rail Clamp is secured to the imc CANSAS flex module (CANFX) or imc BUSDAQ flex (BUSFX) using four screws. The DIN Rail clamp is secured to the mounting plate with two screws



Included accessories

for CANFX/BRACKET-DIN-L6 for all the others:

1x mounting plate

1x DIN-Rail clamp

2x DIN-Rail clamp

4x recessed countersunk screw M3x5

2x recessed countersunk screw M3x6

4x recessed countersunk screw M3x6

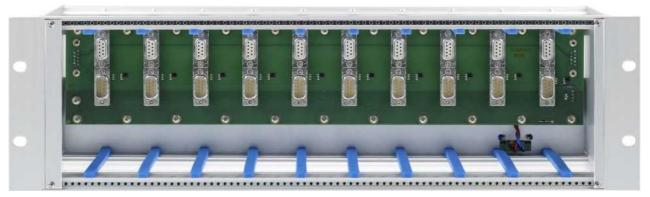
4x recessed countersunk screw M3x6

Order Code:	article number:	
CANFX/BRACKET-DIN-SO	12500021	CANFX DIN-Rail Set for housing SO
CANFX/BRACKET-DIN-S1	12500022	CANFX DIN-Rail Set for housing S1
CANFX/BRACKET-DIN-S2	12500023	CANFX DIN-Rail Set for housing S2
CANFX/BRACKET-DIN-LO	12500024	CANFX as well as BUSFX DIN-Rail Set for housing LO
CANFX/BRACKET-DIN-L1	12500025	CANFX as well as BUSFX DIN-Rail Set for housing L1
CANFX/BRACKET-DIN-L2	12500026	CANFX as well as BUSFX DIN-Rail Set for housing L2
CANFX/BRACKET-DIN-L3	12500090	CANFX as well as BUSFX DIN-Rail Set for housing L3
CANFX/BRACKET-DIN-L4	12500079	CANFX as well as BUSFX DIN-Rail Set for housing L4
CANFX/BRACKET-DIN-L6	12500080	CANFX as well as BUSFX DIN-Rail Set for housing L6



3.6 19" RACK (CANFX/RACK)

The imc CANSAS flex 19" subrack (CANFX/RACK) is suitable for the imc CANSAS flex and CANSAS fdx modules of housing type L, with a depth of 146.5 mm. A maximum of 10 CANFX/L or CANFDX/L modules of housing type L0 23 can be inserted into this CANFX/RACK.





Note

Mounting: CANFX/RACK

Before inserting the modules into the RACK via the guide rails and connecting them to the backplane, attach the cover frames (1) to the front of the module. This locking of the frame to the front of the module is done with four small drop swords or hooks on the back of the frame. The bolting (3) of the frame to the RACK is also tool-free.

The modules which are inserted into the subrack must not be connected to each other via click mechanism.



Legend:

1	cover frames, CANFX/RACK-FRAME-L4
2	bracket for pulling out the modules
3	screw connection of the frame to the CANFX/RACK

CANFX/RACK article no: 12500094, Plug in individual modules,

CAN & Power via 34 backplane 34, Slot 36 recognition/detection 36





Rear side: CANFX/RACK (12500094)



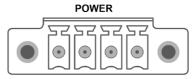
Note

The direct connection of a CAN interface with an additional power supply to a module slot on the PCB 33 is not permitted!

Power

The modules are powered via the Phoenix socket on the rear of the CANFX/RACK.

Pin (Front view)	Signal	Remarks
1 (left)	-SUPPLY	0 V
2	-SUPPLY	0 V
3	+SUPPLY	10 V to 50 V DC
4 (right)	+SUPPLY	10 V to 50 V DC



Phoenix COMBICON MC1.5/4-GF-3.81

Accessories

Included accessories:

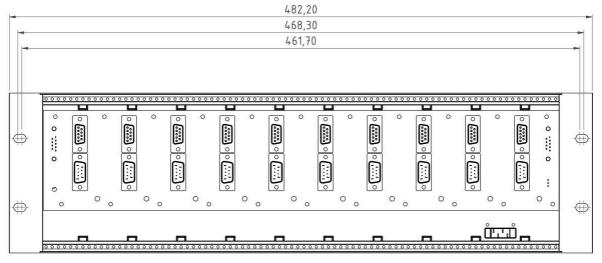
- 1x CAN/POWER-PLUG (10500024), Phoenix 4-pin
- 1x CAN/TERMI, CAN-Bus terminator (10500028)
- 1x Modem cable for the extended operating temperature range

Optional accessories:

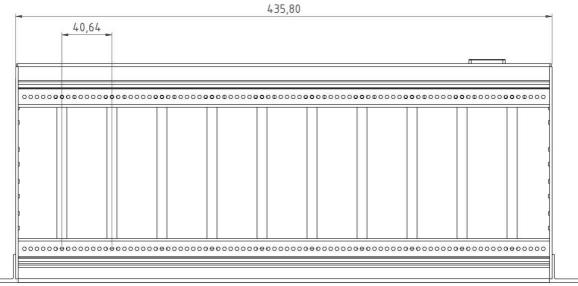
CAN/POWER-SUPPLY	10500022	AC/DC power adaptor 110-230V AC (with Phoenix plug), 24 V DC, 60 W
CANFX/RACK-FRAME-LO	12500096	CANFX frame set for housing type LO
CANFX/RACK-FRAME-L1	12500097	CANFX frame set for housing type L1
CANFX/RACK-FRAME-L2	12500093	CANFX frame set for housing type L2
CANFX/RACK-FRAME-L4	12500098	CANFX frame set for housing type L4 (z.B. CANFX/L-P8-GX)
CANFX/RACK-DUMMY-L0	12500102	blind frame (front) L0: 40.3 mm for covering open slots



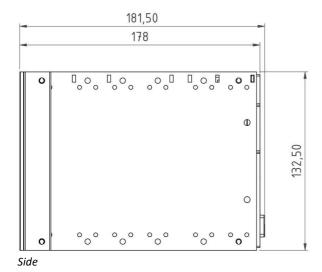
Dimensions



Front CANFX/RACK (12500094)



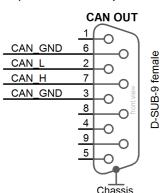
from above

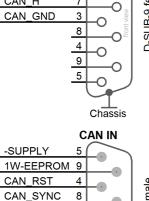




Slot detection - Slot identification

The CANFX/RACK is equipped with an integrated slot detection. There is a data storage component for each slot on the "backplane" PCB of the rack. The imc CANSAS software can query the contents of the data storage component. When using several racks (carriers), each rack can be assigned a level number ("X", see slot: Floor / Position).





D-SUB-9 male 8

Chassis

This ensures the position of a module in the subrack on a specific level

Pin configuration - 19" Rack CAN IN and CAN OUT

PIN	CAN IN	CAN OUT	Remarks
1	+SUPPLY	n.c.	
2	n.c.	CAN_L	dominant low bus line
3	n.c.	CAN_GND	CAN Ground, reference for CAN-Bus
4	CAN_RST	n.c.	
5	-SUPPLY	n.c.	
6	n.c.	CAN_GND	connected with pin 3
7	n.c.	CAN_H	dominant high bus line
8	CAN_SYNC	n.c.	imc specific: additional cable for the synchronization signal (1 Hz).
9	1Wire EEPROM	n.c.	

Technical Specs

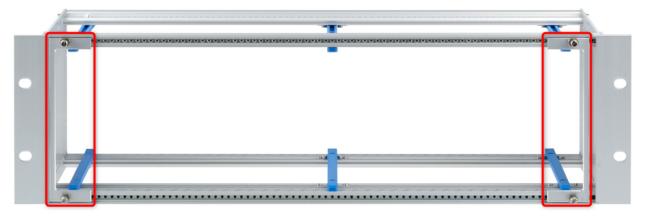
+SUPPLY

Parameter	CANFX/RACK	Remarks
for imc CANSAS housing	CANFX-L housing	each in connection with CANFX/RACK-FRAME-Lx
Operating temperature	-40°C to 85°C	
Slots	10	for example module with housing type LO 23 or 5 modules of type L2 per rack
Socket Power supply	Phoenix (4-pin) MC 1.5/4STF-3.81 10 50 V DC	
Socket CAN	DSUB-9 m/w	
Side panel	angular bracket	
Contact pin for grounding	yes	
imc article no.	12500094	
Dimension	436 x 133 x 182 mm	WxHxD
Weight	2 kg	



3.7 19" RACK BLOCK (CANFX/RACK-BLOCK)

The CANFX/RACK-BLOCK is designed for inserting connected module blocks imc CANSASflex (CANFX) and imc BUSDAQflex (BUSFX). This 19" subrack is designed without backplane and without slots. This distinguishes this subrack from the CANFX/RACK 33 .

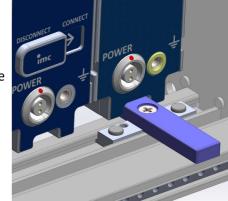


The two fastening elements (framed red on the photo above) are used to hold the module block in addition to the sliding guide rails (blue).

Assembly instruction

It is recommended to position one pair of guide rails on the left, one pair of guide rails in the middle and one pair of guide rails on the right of the connected module block. For alignment, also use the scale on the connecting rails of the subrack.

After inserting the modules into the subrack, both fastening elements are to be mounted without any tools on the sides of the connected module block.



Detail of the sliding guide rail enlarged



The CAN connection and power supply of the module block is done via the <u>click connection</u> 23.

CANFX/RACK-BLOCK article no. 12500103

Included accessories:

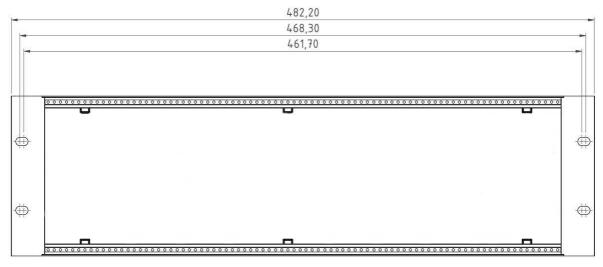
1x ACC/POWER-PLUG3, article no. 13500033, LEMO.0B plug for the power supply

Optional accessories:

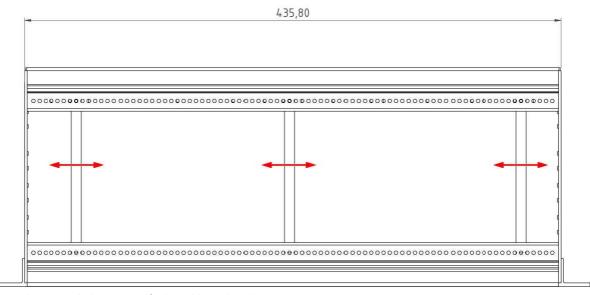
CANFX/RACK-DUMMY-LO article no. 12500102, Dummy frame set (front) LO: 40.3 mm to cover



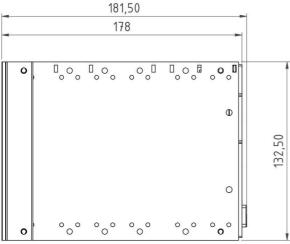
Dimensions



Front CANFX/RACK-BLOCK



From the top; with three pairs of adjustable guide rails

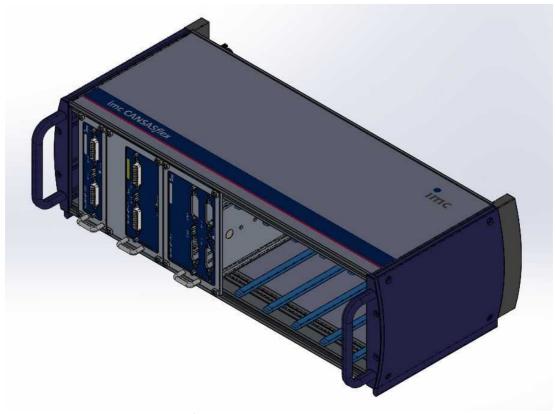


Side view Weight: 1 kg



3.8 CANFX/PORTABLE-RACK

The CANFX/PORTABLE-RACK is a carrying case or tabletop unit for imc CANSAS flex modules of housing type L (module depth of 146.5 mm). The modules inserted are supplied and connected to the CAN bus via the rear panel. Slot detection is supported by the imc CANSAS software. A maximum of 10 modules of housing type L1 (module width of 50.3 mm) can be used.



CANFX/PORTABLE-RACK - imc Artikel Nr. 12500144



Mounting: CANFX/PORTABLE-RACK

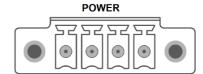
Before inserting the modules into the RACK via the guide rails and connecting them to the backplane, attach the cover frames to the front of the module. This locking of the frame to the front of the module is done with four small drop swords or hooks on the back of the frame. The bolting of the frame to the RACK is also tool-free.

The modules which are inserted into the subrack must not be connected to each other via click mechanism.

Power

The modules are powered via the Phoenix socket on the rear of the CANFX/PORTABLE-RACK.

Pin (Front view)	Signal	Remarks
1 (left)	-SUPPLY	0 V
2	-SUPPLY	0 V
3	+SUPPLY	10 V to 50 V DC
4 (right)	+SUPPLY	10 V to 50 V DC



Phoenix COMBICON MC1.5/4-GF-3.81



Accessories

Included accessories:

Optional accessories:

CAN/POWER-SUPPLY 10500022 AC/DC power adaptor 110-230V AC (with Phoenix plug),

24 V DC, 60 W

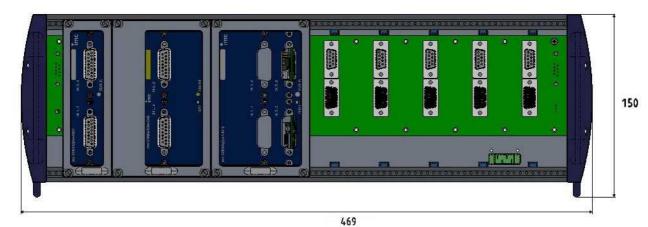
CANFX/RACK-FRAME-L0 12500096 CANFX frame set for housing type L0 CANFX/RACK-FRAME-L1 12500097 CANFX frame set for housing type L1 CANFX/RACK-FRAME-L2 12500093 CANFX frame set for housing type L2

CANFX/RACK-FRAME-L4 12500098 CANFX frame set for housing type L4 (z.B. CANFX/L-P8-GX)

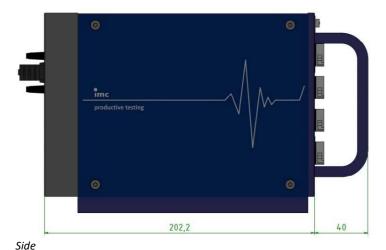
CANFX/RACK-DUMMY-L0 12500102 blind frame (front) L0: 40.3 mm

for covering open slots

Dimensions



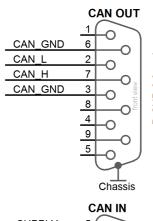
Front

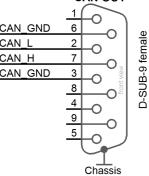




Slot detection - Slot identification

The CANFX/PORTABLE-RACK is equipped with an integrated slot detection.





		Chassis	
	C	AN IN	
-SUPPLY	5		
1W-EEPROM	9		
CAN_RST	4		<u>e</u>
CAN_SYNC	8		Ш
	3	on room	D-SUB-9 male
	7	front	Ä
	2		<u>۵</u>
	6		
+SUPPLY	1		
_			

Chassis

Pin configuration - 19" Rack CAN IN and CAN OUT

PIN	CAN IN	CAN OUT	Remarks
1	+SUPPLY	n.c.	
2	n.c.	CAN_L	dominant low bus line
3	n.c.	CAN_GND	CAN Ground, reference for CAN-Bus
4	CAN_RST	n.c.	
5	-SUPPLY	n.c.	
6	n.c.	CAN_GND	connected with pin 3
7	n.c.	CAN_H	dominant high bus line
8	CAN_SYNC	n.c.	imc specific: additional cable for the synchronization signal (1 Hz).
9	1Wire EEPROM	n.c.	

Technical Specs

Parameter	CANFX/PORTABLE-RACK	Remarks
for imc CANSAS housing	CANFX-L housing	each in connection with CANFX/RACK-FRAME-Lx
Operating temperature	-40°C to 85°C	
Slots	10	for example module with housing type L0 23 or 5 modules of type L2 per rack
Socket Power supply	Phoenix (4-pin) MC 1.5/4STF-3.81 10 50 V DC	
Socket CAN	DSUB-9 m/w	
Side panel	round panel	
Contact pin for grounding	yes	
imc article no.	12500144	
Dimension	469 x 150 x 202.2 mm	WxHxD



4. imc CANSASfit

As a CAN-Bus-based test and measurement tool, the imc CANSASfit series offers a selection of measurement modules which precondition and digitize sensor signals and output these as CAN messages. Their design, the resistance to extreme environmental conditions and the supported sensors and signals make them particularly suited for applications in the fields of automotive engineering, vehicle testing, road trials and measurements on mobile machines.

imc CANSAS fit modules can be mechanically and electrically attached to each other by means of a click mechanism, without the need for any tools or additional connection cabling.

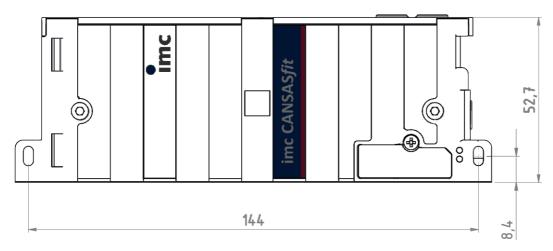
Click mechanism:

- Multiple modules connected in a central block: mechanically and electrically (CAN and power supply)
- No need for tools or additional connection cables

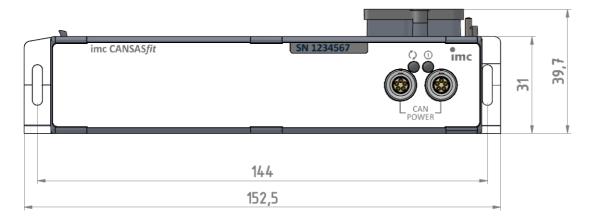
Mounting options:

• Fastening eyelets provided for installation with cable ties, screws or bolts

Mechanical drawings with dimensions



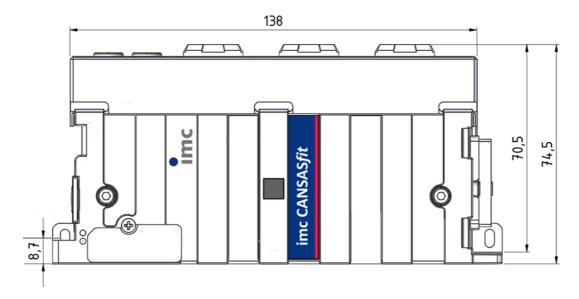
Module shown in standard operating position (terminal connections upwards)



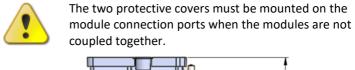
For technical data of the individual modules, please refer to the corresponding data sheets.

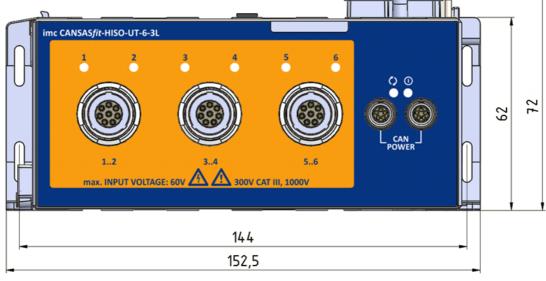


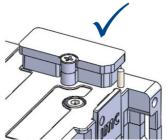
The HISO module series differs from the other imc CANSAS fit (CANFT) modules by its size (slightly raised and double width, -XW) and the degree of protection, please read the corresponding data sheet.



This HISO module (with the connections facing upwards) is the preferred position for use.







protective cover correctly mounted on the module connection port



4.1 **Mounting to DIN-Rail**

Function: Mounting on DIN-Rail (top hat rail)

Properties:

The DIN rail clamp is attached to the top hat rail plate ex factory with two countersunk screws. The top hat rail plate with the mounted top hat rail clamp is attached to the rear of the imc CANSASfit module with two cylinder screws.

The top hat rail plate has a thickness of approx. 6 mm.



Included accessories CANFT/BRACKET-DIN:

1x DIN rail clamp with 2x countersunk screws M3x6 attached to the top hat rail plate (ex factory) 2x cylinder screw M3x8

Order Code: article number:

12100029 CANFT/BRACKET-DIN DIN rail set





CANFT/BRACKET-DIN-XW

The DIN rail clamp is attached to the top hat rail plate ex factory with two countersunk screws exactly like CANFT/BRACKET-DIN. The top hat rail plate with the mounted top hat rail clamp is also attached to the rear of the imc CANSASfit module with two cylinder screws.

The top hat rail plate has a thickness of approx. 6 mm.

Included accessories CANFT/BRACKET-DIN-XW:

1x DIN rail clamp with 2x countersunk screws M3x6 attached to the top hat rail plate (ex factory) 4x cylinder screw M3x8

Order Code: article number:

CANFT/BRACKET-DIN-XW 12100039 DIN rail set extra wide, for HISO



4.2 Mounting with Magnet system

Function: Mounting of an imc CANSAS fit module (CANFT) with magnets rectangular magnet in a rubber cover and with an internal thread

Magnets are fixed to a mounting plate with countersunk screws. This magnetic mounting kit (CANFT/BRACKET-MAG respectively CANFT/BRACKET-MAG-XW) is attached to the backside of the imc CANSAS fit module with cylinder screws.





Danger from magnets:





- Danger from magnetic fields
- Cardiac pacemaker, magnetic data carriers (credit cards, memory cards, etc.)
- Electronic devices (mobile phones, computers, monitors etc.)



Danger from magnets:





- · Risk of injury from squeezing
- Risk of injury from splinters
- · Danger of fire

Please pass this information on to all employees who will have contact with the magnets. Observe the strong holding force on the smallest area when mounting. Always use the spacers when storing the magnets in the metal case provided. When mounting a block consisting of several imc CANSASfit modules, it can be useful to use more than one magnetic mounting set. When selecting the number of magnets, consider the increased holding force. If you have any further questions, please do not hesitate to contact us. imc Test & Measurement GmbH does not accept any liability for improper handling of the magnets.

Application instructions:

- Do not place any iron parts (tools, nails, etc.) near the magnets.
- The magnet mounting set must not be modified.
- Magnets can easily break or splinter. Uncontrolled impact of magnets and mechanical impact or pressure loads must be avoided.
- Persons with pacemakers must not expose themselves to magnetic fields.
- Magnetically sensitive devices and magnetic data carriers must be kept away from magnetic fields.
- Keep the magnets away from open heat and flame!

Magnetic mounting kit with two internal threads			
Parameter	Value (typ.)	Remarks	
Adhesion force per magnet	137 N	carrying up to 14 kg, note the following information on the adhesion force	
Remanence Br	1.17 - 1.21 T	each magnet	
Maximum temperature	60 °C		
WxHxD	31 x 43 x 6.9 mm	dimension of one magnet	
Thickness of the mounting plate	ca. 6 mm		

Note on the adhesion force:

The adhesion force determined by the manufacturer of the magnet is determined at room temperature on a polished steel plate S235JR (ST37) with a thickness of 10 mm and vertical withdrawal of the magnet. A deviation of up to -10% from the stated value is possible in exceptional cases. In general, the value is exceeded. Please note that with thinner, lacquered and not absolutely even surfaces, the adhesive force corresponds to only a fraction of the stated value.

Included accessories CANFT/BRACKET-MAG:

2x magnet 43 x 31 mm, each equipped with 2 counter sunk screws M4x6 ex factory mounted together 2x cylinder screws M3x8

2x spacers M3x8 for safe storage

1x ferromagnetic metal case for safe storage (magnetic short circuit)

Order Code: article number

CANFT/BRACKET-MAG 12100030 CANFT magnetic mounting kit







Included accessories CANFT/BRACKET-MAG-XW:

3x magnet 43 x 31 mm, each equipped with 2 counter sunk screws M4x6 ex factory mounted together 4x cylinder screws M3x8

4x spacers M3x8 for safe storage

1x ferromagnetic metal case for safe storage (magnetic short circuit)

Order Code: article number

CANFT/BRACKET-MAG-XW 12100040 CANFT HISO modules - magnetic mounting kit



5. imc CANSAS, imc C-SERIES (CS) and imc BUSDAQ

5.1 Mounting Bracket 90° (xx/BRACKET-90)

Function: Mounting on a flat surface

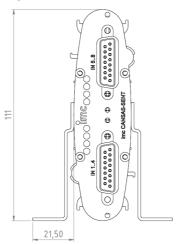
Angle: 90° angular Attachment: 4 x M2.5

Properties:

Requires the module to be equipped with a threaded-hole rail in the

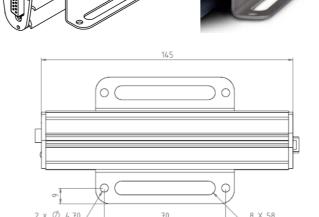
enclosure.

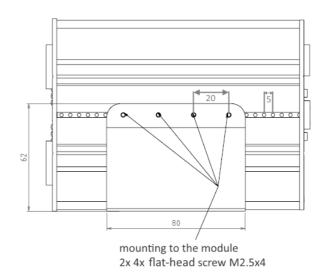
This applies to imc CANSAS modules delivered since approx. 2000; to imc BUSDAQ and imc C-SERIES (CS) devices as of 2012.





rear side: imc BUSDAQ-2





Included accessories:

1x mounting bracket 90° 4x flat-head screw, M2.5x4

Order Code: article number:

CAN/BRACKET-90 10500319 with imc CANSAS module
C/CS-BRACKET-90 14000064 with devices of the imc C-SERIES
BUSDAQ/BRACKET-90 10400034 with imc BUSDAQ devices

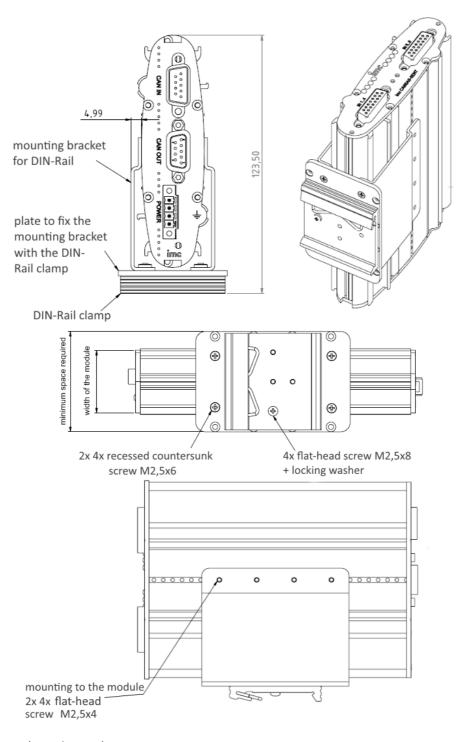


5.2 Mounting to DIN-Rail

Function: Mounting on DIN-Rail (top hat rail)

Angle: 90° angular

Properties: Requires the module to be equipped with a threaded-hole rail in the enclosure.



Included accessories (attachment):

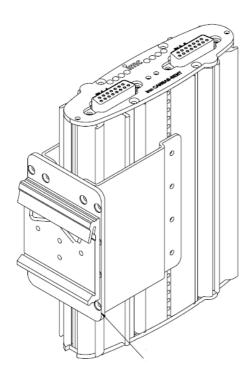
2x mounting brackets for DIN-Rail with 2x 4x flat-head screw M2,5x4

1x DIN-Rail clamp and 1x plate S or M

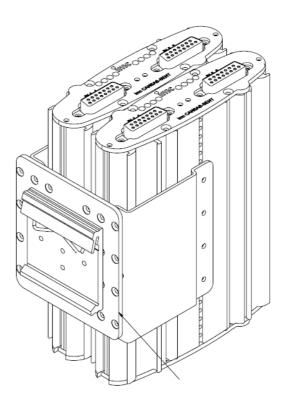
2x 4x recessed countersunk screw M2,5x6 to install the mounting bracket 90° to the plate

4x flat-head screw M2,5x8 + locking washer to mount the plate on the DIN-Rail clamp

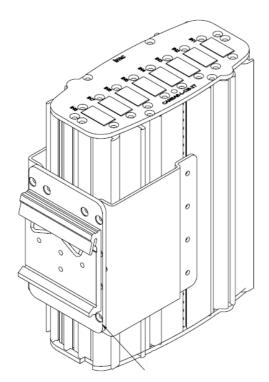




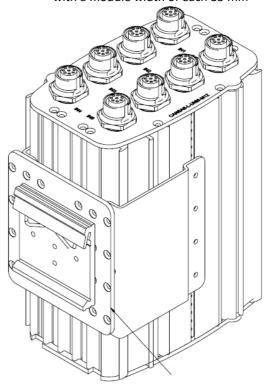
Size S, e.g. for a CAN/L-DI16 module with a module width of 35 mm



Size M, e.g. for **two** CAN/L-DI16 modules with a module width of each 35 mm



Size S, for all imc CAN modules up to a max. width of 55 mm, e.g. CAN/L-CI8-2T



Size M, for all CAN modules up to a max. width of 75 mm, e.g. CAN/L-UNI8-AMPH

Order Code: CAN/BRACKET-DIN-S with imc CANSAS Modules, article number: 10500324

CAN/BRACKET-DIN-M with imc CANSAS Modules, article number: 10500325 **BUSDAQ/BRACKET-DIN-S** with imc BUSDAQ devices, article number: 10400035

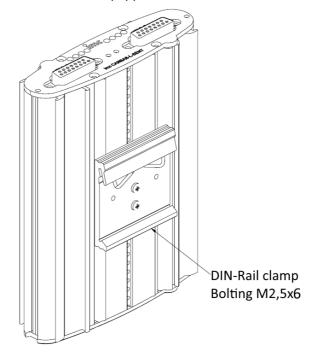


Mounting on DIN-Rail (top hat rail)

Prerequisite: Requires the module to be equipped with a threaded-hole rail in the enclosure.

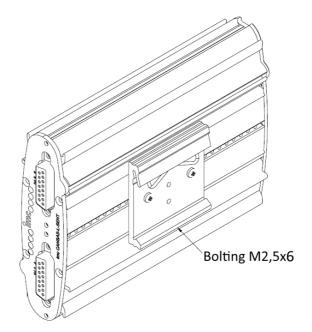
Mounting a DIN-Rail clamp in cross direction

see drawing with one imc CANSAS-L module



Mounting a DIN-Rail clamp in lengthwise direction

see drawing with one imc CANSAS-L module





Note

Bigger devices (weight more than 2 kg), such as devices of the CS-SERIES or BUSDAQ-X should be installed with two sets of this DIN-Rail clamp on the DIN-Rail.

Included accessories:

1x DIN-Rail clamp

2x flat-head screw M2,5x6

Order code: CAN/TH-RAIL for imc CANSAS modules, article number: 10500078

2x CAN/TH-RAIL for devices of the CS-SERIES or BUSDAQ-X



5.2.1 CAN-BRACKET-IHR

Mounting CAN/IHR (10500398) oder CAN/IHR-48V (10500443) on DIN-Rail (top hat rail)

The CAN/BRACKET-IHR set consists of:

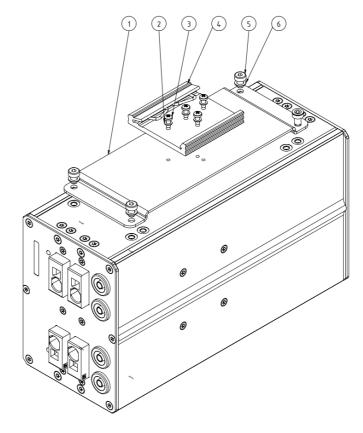
- (1): 1x mounting plate for the DIN-Rail clamp
- (2): 4x locking washer Schnorr S2,5
- (3): 4x flat-head screw M2,5x6, A2
- (4): 1x DIN-Rail clamp
- (5): 4x cylinder screw M4x6, A2
- (6): 4x locking washer S4

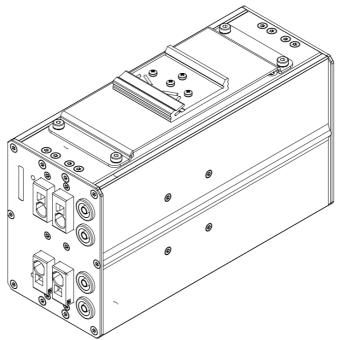
see drawing with one imc CAN/IHR module and set of accessories for: CAN/BRACKET-IHR

Mounting a DIN-Rail clamp in **lengthwise** direction

see drawing with one imc CAN/IHR module and the mounting set

Mounting a DIN-Rail clamp in **cross** direction





Included accessories:

1x mounting set see above

Order code: CAN/BRACKET-IHR, article number: 10500456

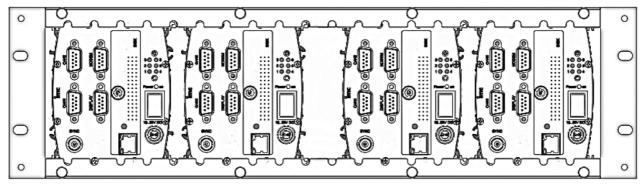


5.3 19" RACK (CS/RACK)

Function: Mounting of imc devices into a 19" RACK without electrical supply

Properties: This 19" RACK can be equipped with four devices. The housing of CS devices and BUSDAQ

devices can be inserted.

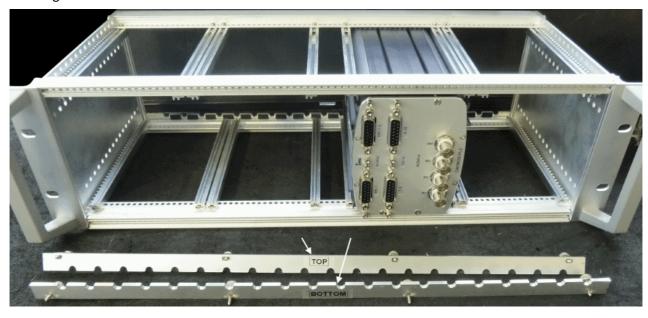


front view: 19" RACK equipped with four devices

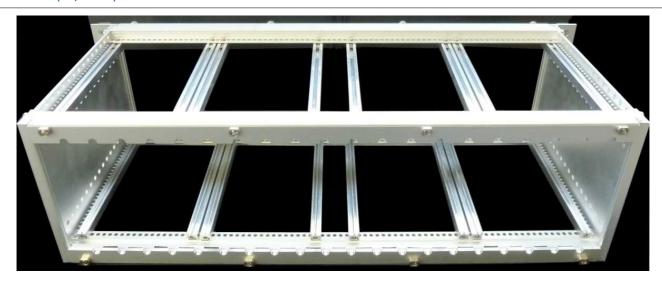


Assembly:

Please insert your devices on the guiding rails. If you have inserted your devices successfully, please install the mounting elements at the top and at the bottom of your rack. The inner surface of those mounting elements are labeled with "TOP and BOTTOM". Please tighten the four screws of the elements hand-tight.









Note

The mounting elements for the rear panel of this rack can remain at the rear side of the RACK.

Included accessories:

1x CS/RACK 2x mounting element top 2x mounting element bottom

Order Code: CS/RACK, article number: 14000091



6. imc CRONOScompact, imc SPARTAN

6.1 Mounting Bracket 180° (CRC(SPAR)/BRACKET-CON)

Function: Mounting of devices on top of one another

Angle: 180° flat Attachment: 4 x M4

Properties:

For devices delivered before 2010, the (old) screws currently on the device must be replaced with the (new) screws included with the product contents.

Assembly or replacement of the threaded bolts should be carried out one after the other.

Tightening torque: 1.2 Nm

The Mounting Bracket 180° can be used to connect imc CRONOScompact devices and/or imc SPARTAN devices.

Frame width of the associated models:

imc	
measurement	width (in mm)
device	
CRC-08	291
CRC-11	353
CRC-13	393
CRC-17	474
SPARTAN-2	251
SPARTAN-4	332
SPARTAN-6	413
SPARTAN-8	495

Included accessories:

1x mounting bracket 180°

4x cylinder M4x6 screws

4x mounting bumpers

8x Schnorr lock washers size S4, stainless

Order Code:

CRC/BRACKET-CON, article number: 11700153 SPAR/BRACKET-CON, article number: 11300119







6.2 Mounting Bracket 90° (CRC(SPAR)/BRACKET-90)

Function: Mounting on a flat surface

Angle: 90° angular Attachment: 2 x M4

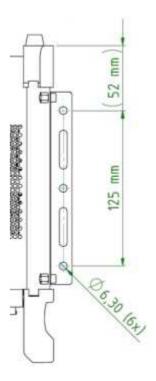
Properties:

For devices delivered before 2010, the (old) screws currently on the device must be replaced with the (new) screws included with the product contents.

Tightening torque: 1.2 Nm

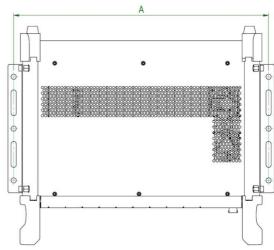
This Mounting Bracket 90° can be used both for imc SPARTAN and for imc CRONOScompact devices.





Frame width and assembly dimension (A) of associated device models:

imc measurement device	width (in mm)	A (in mm)
CRC-08	291	307
CRC-11	353	368
CRC-13	393	409
CRC-17	474	490
SPARTAN-2	251	267
SPARTAN-4	332	348
SPARTAN-6	413	429
SPARTAN-8	495	510



Included accessories:

1x mounting bracket 90°

2x cylinder screws M4x6

4x Schnorr lock washers size S4 stainless

Order Code: CRC/BRACKET-90, article number: 11700152

SPAR/BRACKET-90, article number: 11300118



6.3 Back Panel Mounting Bracket (CRC(SPAR)/BRACKET-BACK)

Function: Mounting on a flat surface

back panel mounting bracket

Angle: flat
Attachment: 2 x M4

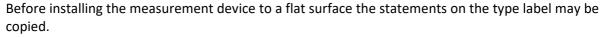
Properties:

For devices delivered before 2012, the device must be retrofitted with two new back panel bumper bars (to which the rubber feet are attached), in order to admit the bracket's screws. This Back Panel Mounting Bracket can be used both for imc SPARTAN and for imc CRONOScompact devices.

The rubber feet additionally serve to provide cushioning.







Included accessories:

1x back panel mounting bracket 2x cylinder screws 2x lock washers

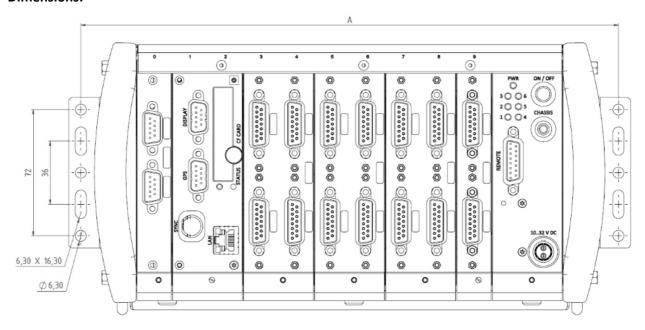
Order Code: CRC/BRACKET-BACK, article number: 11700154

SPAR/BRACKET-BACK, article number: 11300120





Dimensions:



Remarks:

Please consider the table in the chapter: "Mounting Bracket 90° (CRC(SPAR)/BRACKET-90) [57]" for the dimension: A.



imc C-SERIES (CL) **7**.

Mounting Bracket 180° (C/CL-BRACKET-180) 7.1

Mounting on a flat surface Function:

Angle: 180° flat

Attachment: 4 x M4 screws

Properties:

This Mounting Bracket can be used for imc C-SERIES (CL) measurement devices. The picture below illustrates the design:



Front: CL-4108

As displayed in the following picture, the device can additionally be fastened by means of two straps. The Mounting Bracket C/CL-BRACKET-180 (14000065) include two straps.



Included accessories:

1x mounting bracket 180°

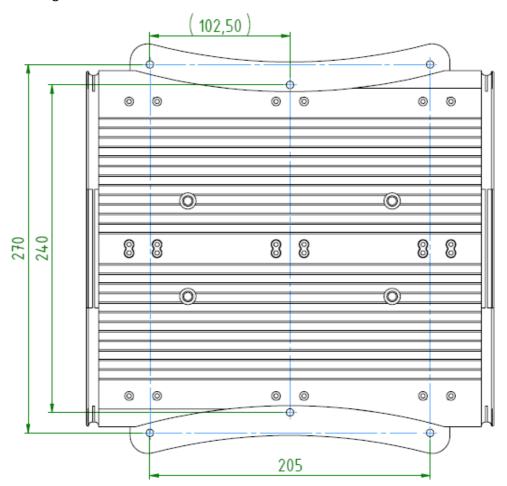
4x recessed countersunk screws M4x6

2x straps

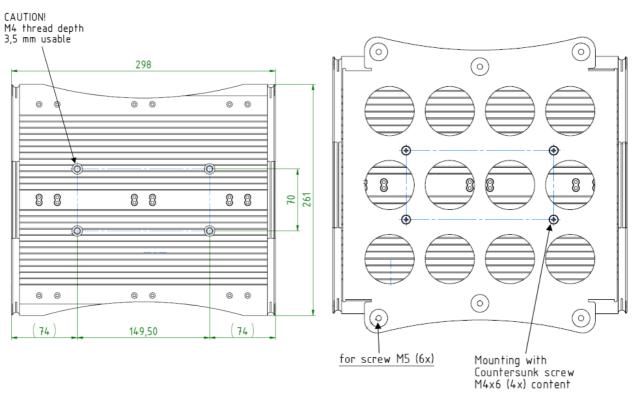
Order Code: C/CL-BRACKET-180, article number: 14000065



Mechanical drawings with dimensions:



CAUTION:





8. imc CRONOS-SL

8.1 Mounting Bracket 90° (CRSL/BRACKET-90)

Function: Mounting on a flat surface

Angle: 90° angular Attachment: 4 x M4

Properties:

This Mounting Bracket is especially suitable for mounting an imc CRONOS-SL device on a flat surface. It can also be used to attach two imc CRONOS-SL devices in a stacked configuration.

Requires the device to be equipped with a threaded bolt. Available for delivery as of 01/2012.



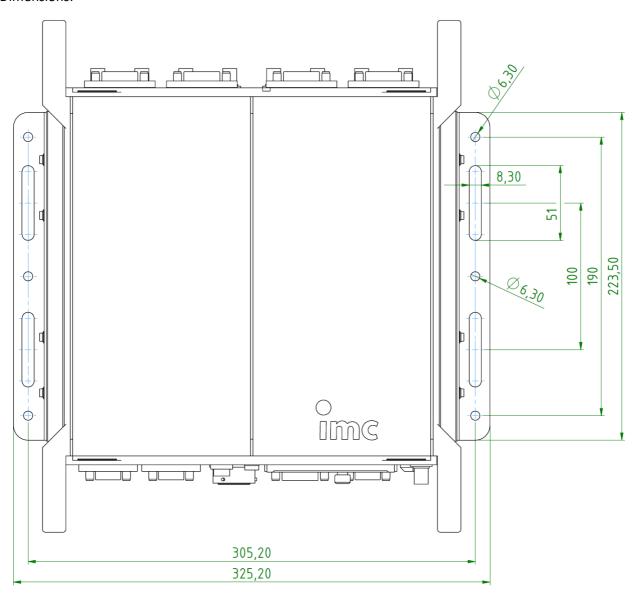
Included accessories:

2x mounting bracket 90° 8x cylinder bolts 8x Schnorr safety bolts, size S3 8x toothed washers, 3.2 Form A DIN 6797 8x washers 3.2 Form A DIN 125

Order Code: CRSL/BRACKET-90, article number: 11800080



Dimensions:





9. imc CANSAS-SL

9.1 Interconnect Bracket

Function: coupling of modules

Angle: 180° flat
Attachment: 2 x M4

Properties:

This Interconnect Bracket fasten two imc CANSAS-SL modules together in a stacked configuration. The brackets are installed on the side plates with a total of four M4 screws. The Interconnect Bracket CAN/SL-BRACKET-CON can be used with all imc CANSAS-SL modules.



Included accessories:

1x interconnect bracket

2x recessed countersunk screws, M4x6

Order Code: CAN/SL-BRACKET-CON, article number: 11500048



9.2 Mounting Bracket 90° (CAN/SL-BRACKET-90)

Function: Mounting on a flat surface

Angle: 90° angular

Attachment: 2 x M4

Properties:

This Mounting Bracket 90° is suitable for attaching either individual or multiple stacked imc CANSAS-SL modules to a flat surface. The Mounting Bracket is to be fixed to the device using two M4 screws.



Included accessories:

1x mounting bracket 90° 2x recessed countersunk screws, M4x6

Order Code: CAN/SL-BRACKET-90, article number: 11500047



9.3 Mounting Bracket 180° (CAN/SL-BRACKET-180)

Function: Mounting on a flat surface (wall)

Angle: 180° flat
Attachment: 2 x M4

Properties:

Wall mounting of the imc CANSAS-SL Modules is possible by means of these Mounting Brackets 180°.



Included accessories:

1x mounting bracket 180°
2x recessed countersunk screws, M4x6

Order Code: CAN/SL-BRACKET-180, article number: 11500049



Index 1 19" RACK CANFX CRFX CS	33 13 54	CANFX/RACK CRC/BRACKET-90 CRC/BRACKET-BACK CRC/BRACKET-CON CRFX/BRACKET-180 CRFX/BRACKET-90 CRFX/BRACKET-BACK CRFX/BRACKET-BACK CRFX/BRACKET-CON CRFX/BRACKET-CON CRFX/BRACKET-RACK CRFX/RACK CRPL/BRACKET-90 CRSL/BRACKET-90 CS/RACK	33 57 58 56 10 11 8 12 16, 18 13 49 62 54
BUSDAQ/BRACKET-90	49		
BUSDAQ/BRACKET-DIN-S	50	D	
С		Dimensions BUSFX Dimensions CANFX	23 23
C/CL-BRACKET-180	60		
C/CS-BRACKET-90 CAN	49	S	
CAN/BRACKET-90	49	SPAR/BRACKET-90	57
CAN/BRACKET-DIN-M	50	SPAR/BRACKET-BACK	58
CAN/BRACKET-DIN-S	50	SPAR/BRACKET-CON	56
CAN/SL-BRACKET-180	66		
CAN/SL-BRACKET-90	65	T	
CAN/SL-BRACKET-CON	64	•	
CAN/TH-RAIL	50	The following figure shows the CRXT	19
CANFT		base unit from above or below.	
CANFT/BRACKET-DIN	44		
CANFT/BRACKET-MAG	46		
CANFX			
CANFX/BRACKET-180-L	26		
CANFX/BRACKET-180-S	26		
CANFX/BRACKET-90-L	28		
CANFX/BRACKET-90-S	28		
CANFX/BRACKET-CON-L	30		
CANFX/BRACKET-CON-S	30		
CANFX/BRACKET-DIN-LO	32		
CANFX/BRACKET-DIN-L1	32		
CANFX/BRACKET-DIN-L2	32		
CANFX/BRACKET-DIN-L4	32		
CANFX/BRACKET-DIN-L6	32		
CANFX/BRACKET-DIN-SO	32		
CANFX/BRACKET-DIN-S1	32		
CANFX/BRACKET-DIN-S2	32		
CANFX/HANDLE-L	31		
CANFX/HANDLE-S	31		