

XTREMEBLOCK

MAKE ONE OUT OF TWO...

06|2023



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OVERVIEW



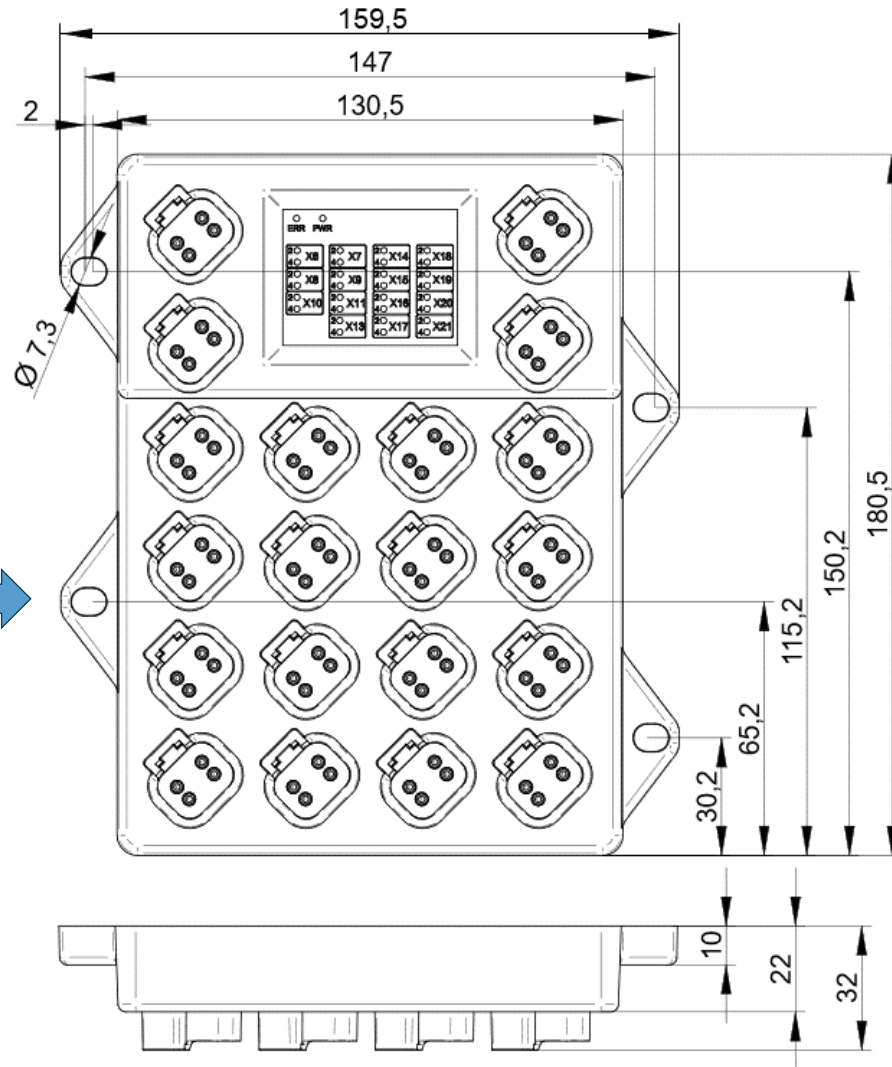
- 20 ports, 12 input and 14 output signals on one module
- 25 A continuous current
- 7 A DO / PWM outputs
- Daisy chain of CAN bus, sensor and actuator supply possible
- IO and hybrid connector pinout corresponds to xtremeDB - same cable sets can be used
- Addressing via software or molded DT connectors

XTREME BLOCK



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DIMENSIONS (mm)



Mounting holes
for M6 screws



Size comparison xDB and xBLOCK



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WELL EQUIPPED

Potted termination Resistor

[DP-34042-747](#)



Blind connector

[DP-34042-743](#)



Potted addressing connector offset 1-8

[DP-34042-73x](#)



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[DP-81000-1-200](#)

- Interface CANopen - CAN2.0B
- Baud rates 125 | 250 | 500 | 1,000 kBaud adjustable via Index 0x4556, Subindex 3.
- 25 A continuous current
- Signal types
 - DI / FRQ - 0.1-10 kHz
 - DI / AI (0-10V, 0-20mA) (12Bit)
 - DO (3A) / PWM (7A) / PWMi (3A)
- Dithering adjustable in frequency and amplitude
- Meets the following EMC requirements
 - ISO 14982 (agricultural)
 - ISO 13766 (Construction)
 - ECE-R10 mark (Municipal)



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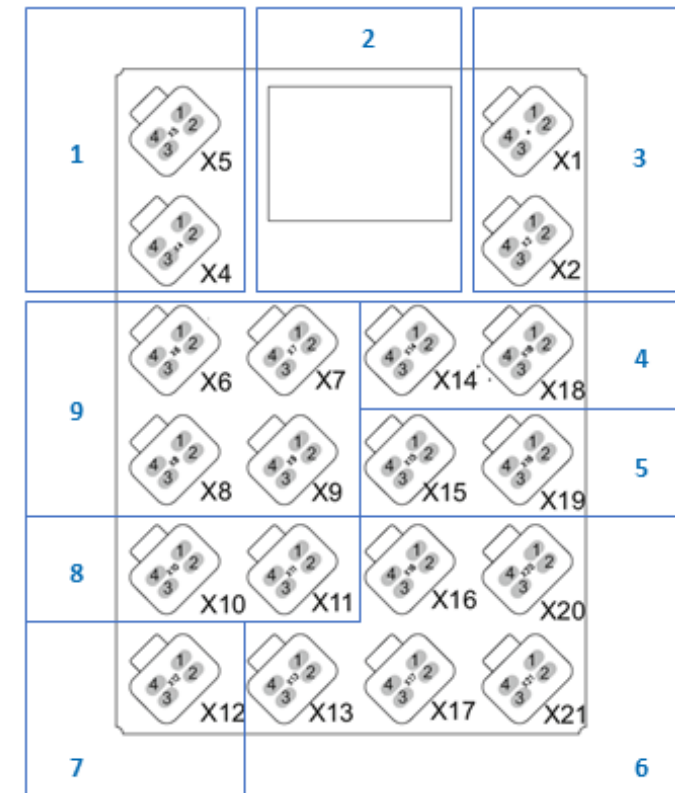
MAKE ONE OUT OF TWO

Signal Type	xtremeDB DP-34044-1-xxx	xtremeBLOCK DP-81000-1-200
Inputs Total	8	12
Digital inputs (DI)	2	
Analogue inputs (configurable as DI)	4	8
Digital or Frequency / Counter / (ENC Gray-Code)	2 (1)	4 (2)
Outputs Total	8	14*
Simultaneously switchable	8	14
Digital outputs DO 3 A each		4
Digital outputs DO / PWM 4 A each	8	
Digital outputs DO / PWM 7 A each		6
PWMi outputs (current controlled)	8 @ 4 A	4 @ 3 A

-xxx = Protocol type: SAE J1939= 000; CANopen = 200

* Each output can alternatively be used as a digital input (DI).

Can replace two common IO modules!



Sections

- 1 VBAT_ECU / CAN
- 2 LED Matrix Display
- 3 VBAT_PWR
- 4 PWMi (DI)
- 5 DO (DI)
- 6 PWM (DI)
- 7 Adressiersteckplatz
- 8 DI
- 9 AI (DI)



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QUICK INTEGRATION

**CAD
Data**

[Download CAD | STEP- | DXF- | DWG- | 2D & 3D-PDF Datei | File](#)



[Download EPLAN-Datei | EDZ-File](#)

EDS

[Download CANopen | EDS Datei | EDS File DP-81000-1-200](#)

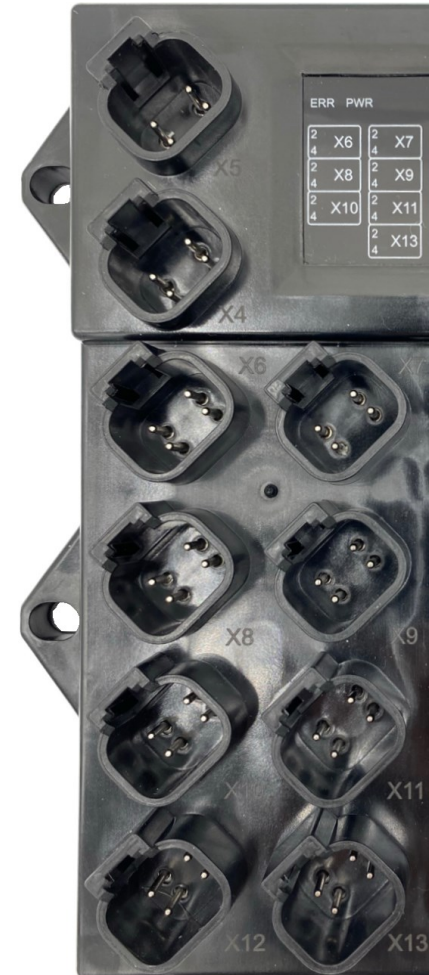


CODESYS

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[Download Codesys | Quickstart Guide EN](#)








[Download CANopen | Symbol & dbc Datei | *.sym & *.dbc file](#)
[Download CANopen | PCAN Project](#)



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SYSTEM CABLES CAN + SENSOR

ART. NO.	CABLE	PINOUT	PICTURE
7072-72165-260xxxx	PUR/PVC 2x1,5+1x(2x0,5) ADR	BN – I OG – II BU - III GN – IV	
7072-77095-260xxxx	PUR/PVC 2x1,5+1x(2x0,5) ADR	1:1	
7072-72165-804xxxx	PUR/PP 1x(4x0,5) HIGH FLEX SHIELDED	WH – I YE – II BN – III GN – IV	
7072-77095-804xxxx	PUR/PP 1x(4x0,5) HIGH FLEX SHIELDED	1:1	
7072-77065-804xxxx	PUR/PP 1x(4x0,5) HIGH FLEX SHIELDED	1:1	



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SYSTEM CABLES POWER + ACCESSORIES

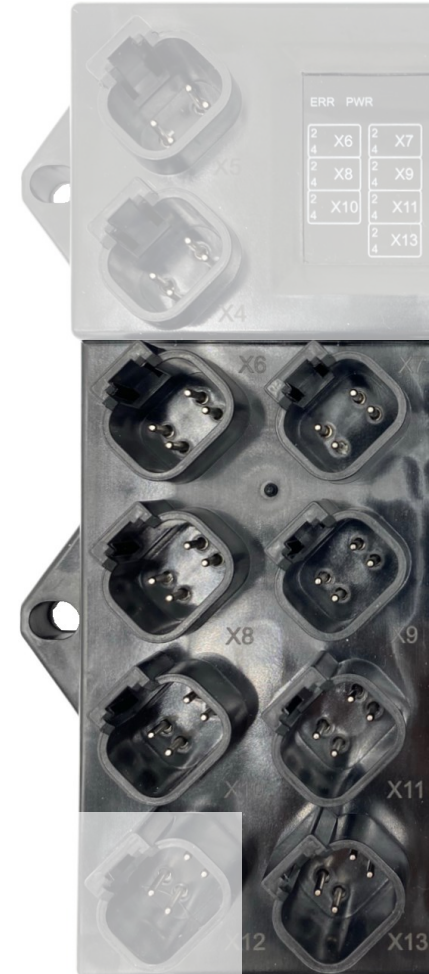
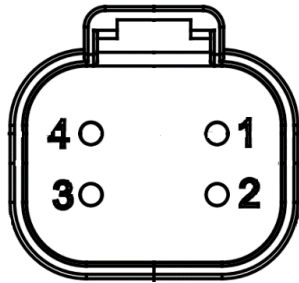
ART. NR.	BESCHREIBUNG	PINOUT	ABBILDUNG
7072-72161-569xxxx	PUR/PP 4x0,75 HIGH FLEX	BN – I WH – II BU – III BK – IV	Bis 2x 8 A sum current 
7072-72161-P07xxxx	PUR/PP 4x1,5 HIGH FLEX	BN – I WH – II BU – III BK – IV	Up to 2x 13 A sum current 
DP-34042-731 ... 738	Node-ID-Plug Offset 1 to Offset 8	Depends on offset	
DP-34042-747	CAN Termination Resistor 120 Ohm AT06-4S potted	II-R-IV	



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IO CABLES

The IO lines of xtremeDB can basically also be used for xtremeBLOCK. For Y output lines, care must be taken to use only variants with common ground on pin 3.



Pin	xtremeDB	xtremeBLOCK
1	GND	U _B
2	Signal B	Signal B
3	GND	GND
4	Signal A	Signal A

[-> Direct link presentation xDB wiring concepts](#)

[-> Direct link DP shop with filter „Suitable for: xBLOCK](#)



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Interest aroused? - Order StarterKit now!

Everything inside for tests on the machine - at a special price!



StarterKit xtremeBLOCK
[DP-SK-81000-1-200](#)



Content

1 pcs	DP-81000-1-200	xtremeBLOCK Multi-IO-Module, 12 IN + 14 Out, CANopen
1 pcs	7072-72165-2600500	Hybrid cable CAN (1x2x0,5mm ²) and sensor power 2x 1,5mm ² (KT260)
1 pcs	7072-72161-P070500	Power cable 4x1,5 mm ² , 5m
1 pcs	DP-34042-747	CAN termination resistor potted
17 pcs	DP-34042-743	Dummy connector for unused xtremeDB IO ports





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