



- Driving data recording
- European Train Control System (ETCS)
- Train Real Time Data Protocol (TRDP)
- Online Monitoring
- SFTP/WebDAV file retrieval
- Digital output DIG OUT
- 1xCAN / 2x Ethernet 100Mb/s
- Crash Protected Memory according EN 62625
- asis® system integration



1. Electrical input characteristics

Parameter	Min.	Typ.	Max.	unit
Operating voltage	16.8	24 - 110	143	V
Power consumption		3.5	5	W
Inrush current			<300	mA
Galvanically isolated		yes		

2. Electrical output characteristics DIG OUT

Parameter	Min.	Typ.	Max.	unit
Operating voltage	16.8	24 - 110	143	V
Operating current			0.8 ¹	A
Galvanically isolated		yes		

3. Environmental conditions

Parameter	Min.	Typ.	Max.	unit
Rated temperature		25		°C
Operating temperature	-25		+70	°C
Storage temperature	-40		+85	°C
Storage and operating humidity	10		90 ²	%RH
Protection class		IP20		
Altitude during operation above sea level			3000	m
Reliability MTTF		60		Years

4. Memory

Designation	Min.	Max.	unit
SDHC flash card (industrial standard)		256	GB
Crash Protected NOR Flash memory		512 ³	MB
CPM Hardness Level complies with EN 62625-1, 4.3.1.7 Table 1	Level A		

5. Dimensions / Weight / Color

Designation				unit
Dimensions WxHxD	213	128.4	2144	mm
Rack mount dimensions	42 TE	3 HE		
Weight		4.5		kg
Color	Naturally anodized aluminium, RAL2003, stainless steel			

¹ short peak 2A

² Non-condensing

³ 2GB possible in 2027

⁴ Without handle

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6. Connector Description:

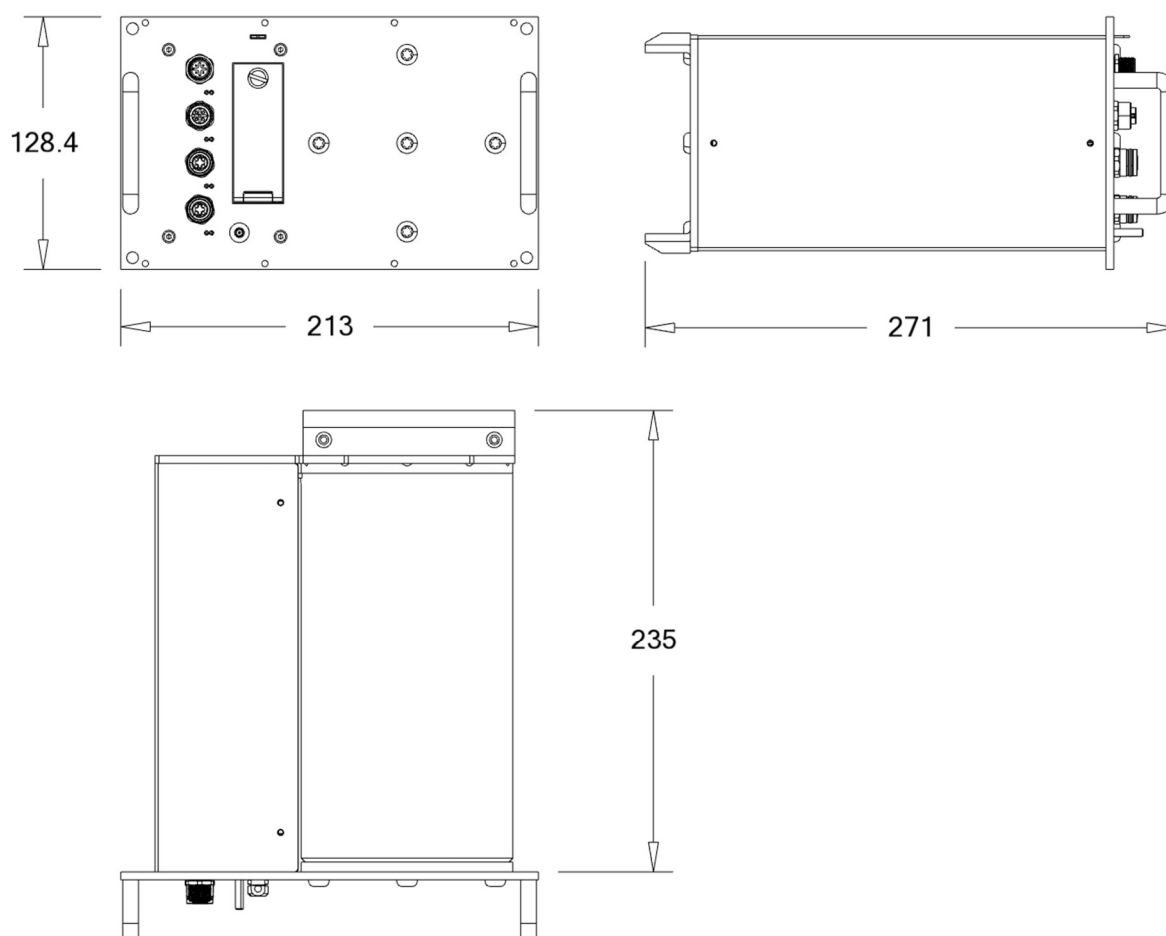
	X4 Supply/Dig OUT	M12 male A-coded 1 + Bat 2 - Bat 3 DIG OUT + 4 DIG OUT -	LED - Power (Green LED blinking 80% ON / 20% OFF if system ok) - DIGOUT (Green LED, ON if DIGOUT is on)
	X3 CAN	M12 female A-coded 1 CAN_SHLD 2 3 4 CAN H 5 CAN L	LED - CAN RX (Green LED, flickers on incoming traffic) - CAN TX (Green LED, flickers on outgoing traffic)
	X2 LAN 2	M12 female D-coded Outer Push-Pull 1 RX P 2 TX P 3 RX N 4 TX N	LED - Link/Act 2 - Speed 2
	X1 LAN1	M12 female D-coded Outer Push-Pull 1 RX P 2 TX P 3 RX N 4 TX N	LED - Link/Act 1 - Speed 1
	PE	Grounding Bolt M4	Equipped with 2 hexagonal nuts, 2 washers and 1 spring washer

7. Local HMI

The local HMI is protected against tampering by a sealable cover. Additionally, the use of SD cards allows for fast and efficient data retrieval.

	USB C	Service interface (Manufacturer use only)
	Push Button Card	Prepares the SD card for removal (saves the last file from internal NOR flash to the SD card)
	SD Card Slot	- Push-push SD card slot - SDHC up to 256GB
	LED Card	Dark: Card function is ok Red blinking: Card Error (no SD card, SD card write protected, SD card not readable) Blue blinking: while closing (saving) data Green: Data saved, SD card is ready for removal
	LED Status	Green flickering¹: While datarecording Red blinking (fast): Error (configuration problem) Blue blinking² (data timeout) Alternate blinking green and blue: if both ¹ and ² are active
	Push Button RESET	Resets the device (long press required)

8. Drawings



9. Standards and Approvals

EN 50155:2022-06
EN 45545-2:2020-10
EN 62625-1:2013

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