



- 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
- 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
Internal NOR flash memory		512 ³	MB

5. Dimensions / Weight / Color

Designation				unit
Dimensions WxHxD	106.3	128.4	214 ⁴	mm
Rack mount dimensions	21 TE	3 HE		
Weight		1.3		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:



Table with 3 columns: Connector Label, Pin Configuration/Type, and LED Indicators. Rows include X4 Supply/Dig OUT, X3 CAN, X2 LAN 2, X1 LAN1, and PE Grounding Bolt M4.

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.

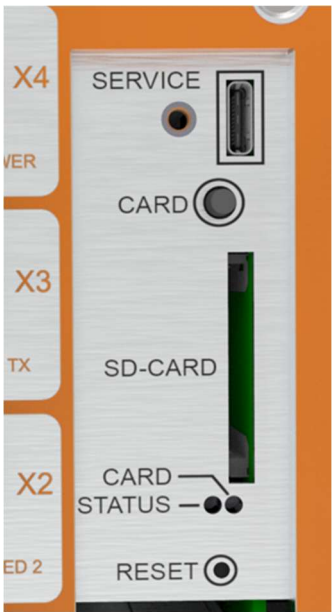
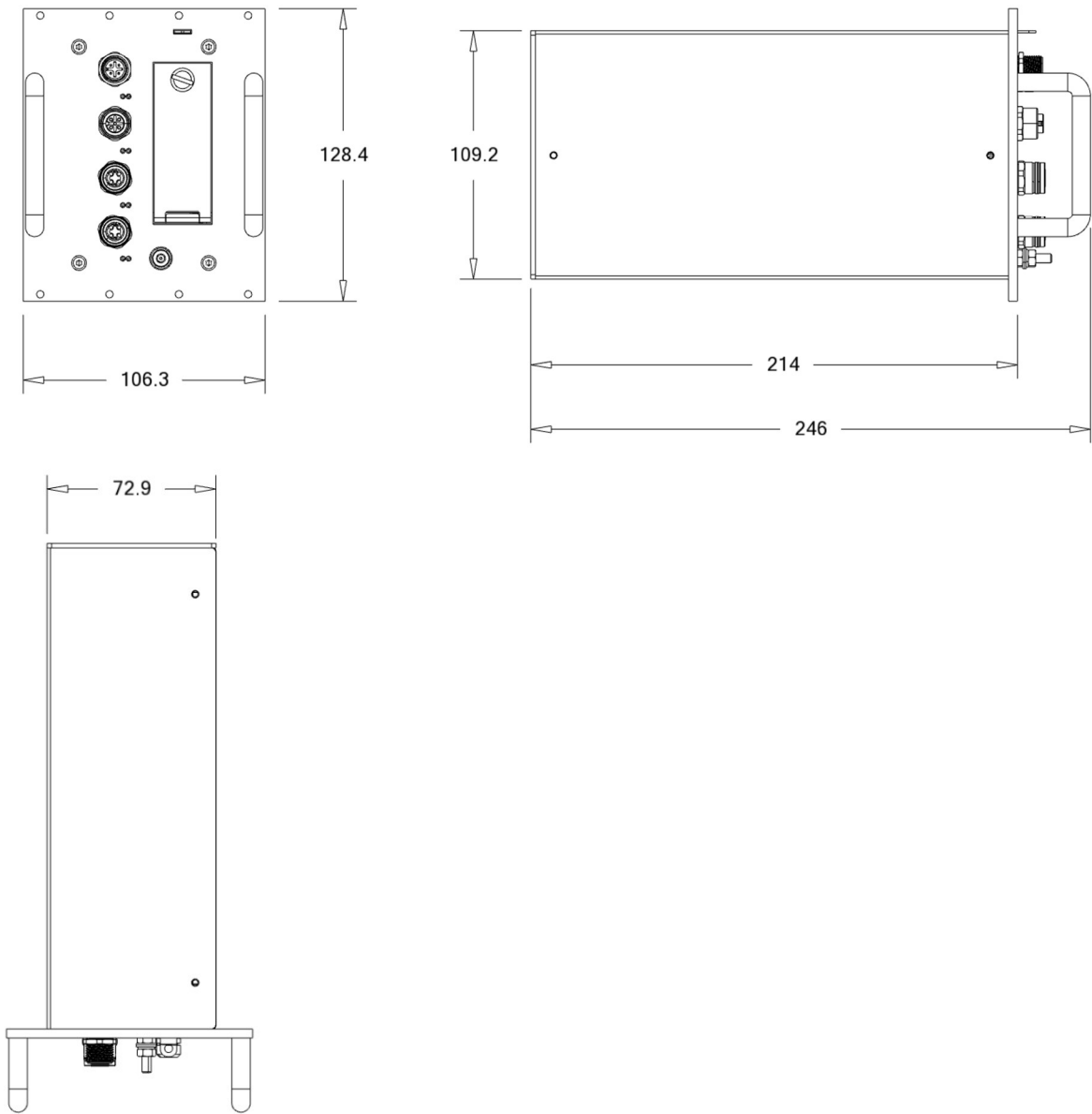


Table with 2 columns: Component and Description. Rows include USB C, Push Button Card, SD Card Slot, LED Card, LED Status, and Push Button RESET.

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8. Drawings



9. Standards and Approvals

EN 50155:2022-06
EN 45545-2:2020-10

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Synics AG
Querstrasse 8, CH-8105 Regensdorf

www.synicsrail.ch

rail@synics.ch
+41 44 840 40 60