

# Data Sheet

Article No. 3535



- Driving data recording
- European Train Control System (ETCS)
- Train Real Time Data Protocol (TRDP)
- Online Monitoring
- SFTP/WebDAV file retrieval
- Digital output
- 1xCAN / 2x Ethernet
- asis® system integration



## 1. Electrical input characteristics

Parameter	Min.	Typ.	Max.	unit
Operating voltage	16.8	24 -110	143	V
Power consumption	tbd	tbd	15	W

## 2. Environmental conditions

Parameter	Min.	Typ.	Max.	unit
Rated temperature		25		°C
Operating temperature	-25		+85	°C
Storage temperature	-40		+85	°C
Storage and operating humidity	10		90 <sup>1</sup>	%RH
Protection class		IP20		
Altitude during operation above sea level			3000	m
Reliability			tbd	Years

## 3. Memory

Designation	Min.	Max.	unit
SDHC flash card (industrial standard)		256	GB
Internal NOR flash memory		2(8) <sup>2</sup>	GB

## 4. Dimensions / Weight / Color

Designation				unit
Dimensions WxHxD	106.3	128.4	214 <sup>3</sup>	mm
Rack mount dimensions	21 TE	3 HE		
Weight		5.5		kg
Color	Naturally anodized aluminium, RAL2003, stainless steel			

<sup>1</sup> Non-condensing  
<sup>2</sup> 8GB coming 2026  
<sup>3</sup> Without handle

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## 5. Connector description:



<p>X4 Supply/Dig OUT</p>	<p>M12 male A-coded</p> <ul style="list-style-type: none"> <li>1 + Bat</li> <li>2 - Bat</li> <li>3 DIG OUT +</li> <li>4 DIG OUT -</li> </ul>	<p>LED</p> <ul style="list-style-type: none"> <li>Power (Green LED if system ok)</li> <li>DIGOUT (Amber LED, ON if DIGOUT is on)</li> </ul>
<p>X3 CAN</p>	<p>M12 female A-coded</p> <ul style="list-style-type: none"> <li>1 CAN_SHLD</li> <li>2</li> <li>3</li> <li>4 CAN H</li> <li>5 CAN L</li> </ul>	<p>LED</p> <ul style="list-style-type: none"> <li>CAN RX (Green LED, flickers on incoming traffic)</li> <li>CAN TX (Green LED, flickers on outgoing traffic)</li> </ul>
<p>X2 LAN 2</p>	<p>M12 female D-coded Outer Push-Pull</p> <ul style="list-style-type: none"> <li>1 RX_P</li> <li>2 TX P</li> <li>3 RX N</li> <li>4 TX N</li> </ul>	<p>LED</p> <ul style="list-style-type: none"> <li>Link/Act</li> <li>Speed</li> </ul>
<p>X1 LAN1</p>	<p>M12 female D-coded Outer Push-Pull</p> <ul style="list-style-type: none"> <li>1 RX P</li> <li>2 TX P</li> <li>3 RX N</li> <li>4 TX N</li> </ul>	<p>LED</p> <ul style="list-style-type: none"> <li>Link/Act</li> <li>Speed</li> </ul>
<p>PE</p>	<p>Grounding Bolt M4</p>	<p>Equipped with 2 hexagonal nuts, 2 washers and 1 spring washer</p>

## 6. 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.



<p>USB C</p>	<ul style="list-style-type: none"> <li>Service interface (Manufacturer use only)</li> </ul>
<p>Push Button Card</p>	<ul style="list-style-type: none"> <li>Prepares the SD card for removal (saves the last file from internal NOR flash to the SD card)</li> </ul>
<p>SD Card Slot</p>	<ul style="list-style-type: none"> <li>Push-push SD card slot</li> <li>SDHC up to 256GB</li> </ul>
<p>LED Card</p>	<ul style="list-style-type: none"> <li><b>Dark:</b> System is running</li> <li><b>Red blinking:</b> Card Error (no SD card, SD card write protected, SD card not readable)</li> <li><b>Green/red alternating blinking:</b> data is being written</li> <li><b>Green:</b> Data saved, SD card is ready for removal</li> </ul>
<p>LED Status</p>	<ul style="list-style-type: none"> <li><b>Green blinking (1s):</b> Data recording</li> <li><b>Red blinking (fast):</b> Error (data timeout, configuration problem)</li> </ul>
<p>Push Button RESET</p>	<p>Resets the device (long press required)</p>

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# Data Sheet

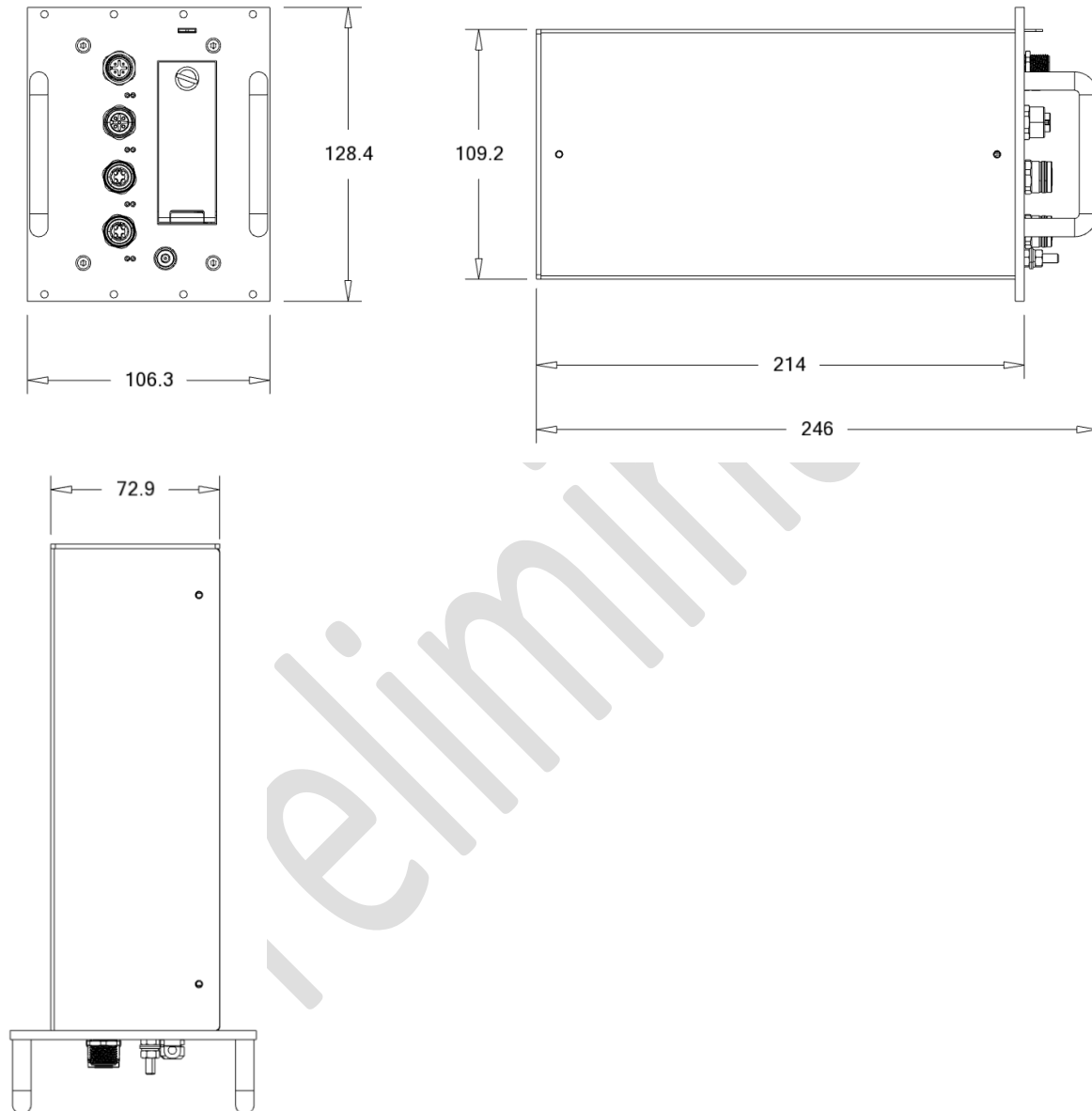
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## 7. Web Interface

Refer to document xxx

## 8. Drawings



## 9. Standards and Approvals

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

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