The 216032 is a very robust industry and railway approved RFID reader family. It is tested according the EN 50 155. All components are designed for a very long lifetime in harsh industrial environments. The modular software design of the new reader family gives the ability to support various communications protocols such as LLRP, OPC-UA, or even the implementation of a very powerful middleware functionality based on the ALE 1.1 standard of the GS1®. In addition, customer-specific variants can be supplied.

Key Features

- ✓ Designed for the harsh industrial environment
- ✓ Tested according to industry and railway standards
- ✓ Ready for software customization
- ✓ M12 connectors
- ✓ Power over Ethernet

Technical Specifications

Transponder protocol :	EPC Class 1 Gen2 (ISO 18000-6c)
Antenna connection:	2 x RP-TNC connector (50 Ohm); reader internally multiplexed
Output power:	max. 0.5 W
Frequency range:	865 … 928 MHz (region configurable)
Interfaces Ethernet:	(TCP/IP) 10/100 Mbit/s; Full Spec. 802.3
Diagnosis (LED):	3 LEDs to visualize the device and antenna status
Inputs / Outputs:	up to 8 configurable IOs (not available in PoE operation)
Bulk-Reading:	capability up to 100 transponders/s
Max. reading distance:	up to 1.64' or 5 meters, related to the transponder type and environmental conditions
Power supply:	24 V DC (±5 %) / Power over Ethernet (PoE)
Current Consumption:	max. 500 mA

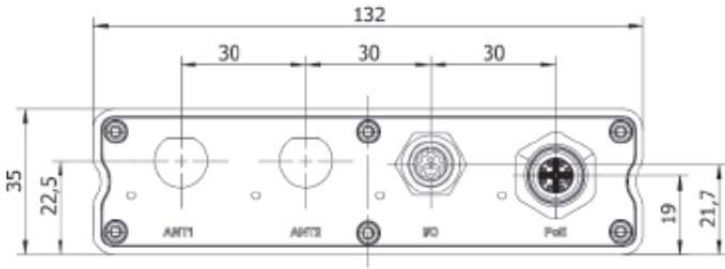|	
Operating system:	Linux (Kernel 3.x.x)
System performance:	1 GHz ARM processor / 1 GB RAM / 4 GB eMMC / Up to 32 GB Flash (via Micro SD Card)
Material of housing:	corpus Aluminium, powder coated front cover Aluminium
Dimensions:	(B x H x T) 5.19" x 4.1" x 1.4" 132 x 104 x 35 mm
Installation on DIN rail:	DIN rail mounting kit (optional accessories)
Operating temperature:	-40°F to 131°F / -40 °C ... +55 °C
Storage temperature:	-40°F to 185°F / -40 °C ... +85 °C
Relative humidity:	5 % ... 95 % (non-condensing)
Vibration:	EN 60 068-2-6, 10 Hz to 150 Hz: 0,075 mm / 1g
Shock:	EN 60 068-2-27, Acceleration: 30 g

Norms & Safety

Radio License:	EN 302 208 / FCC 47 FCR Part 15 (Q2 2016) / IC RSS-GEN, RSS-210 (Q2 2016)
EMC:	EN 301 489
Low voltage:	EN 60 950
Human Exposure:	EN 50 364
RoHS compliant	

Railway (rolling stock)

Isolation:	EN 50 124-1
EMC:	EN 50 121-4, EN 50 121-3-2
Vibration:	EN 61 373 Cat. 1B
Shock:	EN 61 373 Cat. 1B
Wet heat (cyclic):	EN 50 155 / EN 60 068-2-30
Fire protection:	EN 45 545-2

Product Drawing:

GAO Group

GAORFID.com
GAOTek.com
GAOResearch.com

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1-877-585-9555

All Other Areas

416-292-0038

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