

Premium Vision

Standard gateway module

GENERAL FEATURES:

Specifically designed as a standard gateway.

From 12 to 36 Vdc supply.

Protocols:

- 2xEthernet
- CAN
- RS232
- RS485
- USB

3 LEDs

4 Relay Outputs

4 Digital Inputs

4 Analog Inputs

Wide operating temperature range.



INTERFACE

Communication	Ethernet RJ-45 Connector Ethernet M12 Connector RS-232 DB-9 Connector RS485 RJ-11 Connector CAN 3 pins Connector USB 2.0 Type A
Relays	8 Pin Connector
Digital configuration inputs	8 Pin Connector
Analog Inputs	8 Pin Connector
LEDs	Power ON Internal faults

ENVIRONMENTAL

Storage temperature	-40°C ... 85°C
Operating temperature range	-40°C ... 70°C, 85°C 10 min (EN50125-1 OT3 Class ST1 and ST2)
Maximum Relative humidity	5...100%
Installation altitude	up to 2000 m

EMC

Emission according to	EN50121-3-2 (Rolling stock.Apparatus)
Immunity according to	EN50121-3-2 (Rolling stock.Apparatus)

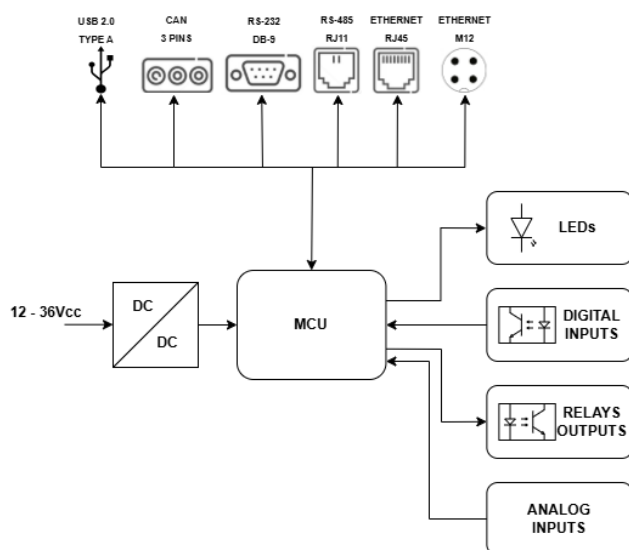
SAFETY

Safety according to	EN50124-1 Railway app.
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MECHANICAL

Approximate weight	<0.5kg
Protection degree	IP21
Dimensions (Width x Height x Depth)	Look at 'Mechanical Drawing' section

BLOCKS



DESCRIPTION

The main functionality of the gateway is to provide multiple communication protocols to equipment that have communication limited to a single protocol or do not have Ethernet access.

The equipment must be able to connect to multiple devices and provide information from all of them.

The gateway module has two ethernets, one on RJ45 and the other on M12, it also has a RS-485 protocol on RJ11, a RS-232 protocol on DB-9, a CAN protocol on a 3-pin connector and a USB 2.0 protocol on Type A connector.

PoE has been implemented over the RJ-45 Ethernet to provide input power to the device.

Check the user's manual to know more about all the features of the gateway.



INSTALLATION

The gateway module has been designed to be installed on wall or on DIN rail. It should be done by certified personnel.

For equipment connection, please refer to the user's manual.

CONNECTIONS

J6	2 PINS	Supply
J6:1		GND
J6:2		VIN

J3	3 PINS	CAN
J3:1		GND_CAN
J3:2		CANL
J3:3		CANH

J4	3 PINS	CAN
J4:1		GND_CAN
J4:2		CANL
J4:3		CANH

J2 (X6)	RJ45	Ethernet
J2:1		TD+
J2:2		CTT
J2:3		TD-
J2:4		RD+
J2:5		CTR
J2:6		RD-
J2:7		-
J2:8		GND/SHIELD

J1 (X7)	M12	Ethernet
J1:1		TX_P
J1:2		RX_P
J1:3		TX_N
J1:4		RX_N
J1:5		EARTH

J15	DB-9	RS-232
J15:1		NC
J15:2		TX
J15:3		RX
J15:4		NC
J15:5		GND_RS232
J15:6		NC
J15:7		NC
J15:8		NC
J15:9		NC



J7	8 PINS	Relays Outputs
J7:1		COM_OUT4
J7:2		OUT4
J7:3		COM_OUT3
J7:4		OUT3
J7:5		COM_OUT2
J7:6		OUT2
J7:7		COM_OUT1
J7:8		OUT1

J8	8 PINS	Digital Inputs
J8:1		IN4-P
J8:2		IN4-N
J8:3		IN3-P
J8:4		IN3-N
J8:5		IN2-P
J8:6		IN2-N
J8:7		IN1-P
J8:8		IN1-N

J9	8 PINS	Analog Inputs
J8:1		AN4-P
J8:2		AN4-N
J8:3		AN3-P
J8:4		AN3-N
J8:5		AN2-P
J8:6		AN2-N
J8:7		AN1-P
J8:8		AN1-N

J14	RJ11	RS-485
J14:1		GND_RS485
J14:2		RS485_B
J14:3		RS485_A
J14:4		RS485_B
J14:5		RS485_A
J14:6		GND_RS485

MECHANICAL DRAWING



General dimensions (mm)



VISUAL INDICATIONS



Frontal view

Alarms	
LED	ON
Power ON	The device is switched on
Internal Fault	Has internal faults or failures



CE|UK CA EU, UKCA DECLARATION OF CONFORMITY

The undersigned, representing the following:

Manufacturer: PREMIUM, S. A.,
Address: C/ Dolors Aleu 19-21, 08908 L'Hospitalet de Llobregat, SPAIN

herewith declares that the product:

Type: Premium Vision
Model: ACG-3000

is in conformity with the provisions of the following EU directives and UK legislation:

2014/35/EU SI 2016 No 1101	Low voltage / The electrical equipment (safety) regulations
2014/30/EU SI 2016 No 1091	EMC / Electromagnetic compatibility regulations
2015/863/EU SI 2012 No. 3032	RoHS / Restriction of the use of certain hazardous substances in electrical and electronic equipment

and that standards and/or technical specifications referenced below have been applied:

EN 62368-1: 2020	Safety. Audio/video information and communication technology equipment
EN 61000-6-4: 2019	Generic emission standard
EN 61000-6-2: 2019	Generic immunity standard
EN 50155: 2021*	Railway applications. Electronic equipment used on rolling stock material
EN 50121-3-2: 2016* IEC 62236-3-2: 2018*	Railway applications. EMC Rolling stock equipment
EN 50121-4: 2016* IEC 62236-4: 2018*	Railway applications. EMC of the signalling and telecommunications apparatus

CE marking year: **2025**; UKCA marking year: **2025**

Notes:

For the fulfillment of this declaration the product must be used only for the aim that has been conceived, considering the limitations established in the instructions manual or datasheet.

L'Hospitalet de Llobregat, 11-04-2025

Albert Sole
Technical Director

PREMIUM S.A. is an ISO9001 and ISO14001
certified company by **Bureau Veritas**