



**Worldwide & cybersecure
connectivity with outstanding
performances & reliability.**

TGU-R GEN 2 Worldwide Cyber is a rugged automotive-grade telematics gateway with worldwide connectivity, multi-channel communication, and embedded cybersecurity. Fully compatible with the ACTIA FLEET platform, it among others enables secure OTA updates, diagnostics, and machine maintenance, compliant with UNECE R155/ R156 and RED Cyber.

TGU-R 4G GEN2

YEARS OF
TELEMATICS
EXPERIENCE
IN ONE RUGGEDIZED
OPEN PLATFORM



Bluetooth®



CAN



TGU-R 4G GEN2

YEARS OF TELEMATICS EXPERIENCE IN ONE RUGGEDIZED OPEN PLATFORM

A complete reliable automotive solution.

From start of the project:

- Development variant.
- Intuitive Board Support package.
- Starter kit & training sessions.

Throughout the vehicle's life:

- Manufactured by ACTIA.
- Maintenance in Operational Conditions.
- Maintenance in Cybersecurity Conditions.
- Obsolescence Management.

Global connectivity & rugged performance: 67 countries covered.

Scalable & customizable platform: cloud-configurable services for CAN logging and telemetry and seamless integration with ACTIA's D2hub platform for data collection, visualization and remote updates.

ECU	
POWER SUPPLY	12V - 24V
DIMENSION	176mm x 220mm x 52mm including fixation interface
BACK-UP BATTERY	Rechargeable Lithium-ION - 7,2V - 500mAh
CYBERSECURITY	Compliant with RED2
ACCELEROMETER/GYROSCOPE	With wake-up capability
I/Os	
INPUTS	3 analog, 2 frequency, 1 Digital wakeup input with wakeup feature (ignition key), Microphone inputs
OUTPUTS	1 HSD 500mA, Speaker output
WIRELESS NETWORKS	
WIFI	2.4GHz 802.11 b/g/n, 5GHz a/n/ac HT20 & HT40
BLUETOOTH	BT4.1 - BLE
NETWORK ACCESS DEVICE	Global LTE Cat 4 modem with 3G/2G fallback DL: max. 237 kbps, UL: max. 237kbps
SIM	SIM card connector slot
GNSS	GPS, GLONASS, BEIDOU, GALILE
COMMUNICATION	
CAN	2 CAN including one with wake-up and the other one isolated (ISOBUS)
LIN	1
RS232	1 Tx/Rx
WIRE INTERFACE	For ibuttons
USB	OTG 2.0 High Speed 500mA output
ETHERNET	100 Base Tx
PROCESSING	
CPU CORE	32 bits CPU ARM microcontroller
MEMORY	RAM 1GB, eMMC 16GB
RTC	With coin cell
ENVIRONMENT	
TEMPERATURE	-40°C / +85°C operating, -55°C to +90°C storage, 10 temperature cycles per IEC60068-2-14, 40°C @ 93% RH, 21 days per IEC60068-2-78
OTHERS	High resistance to shock, vibration, EMI/EMC, and drastic changes in temperature
IP GRADE	IP67/IP6K9K

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