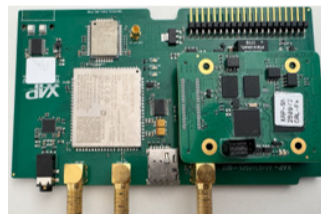
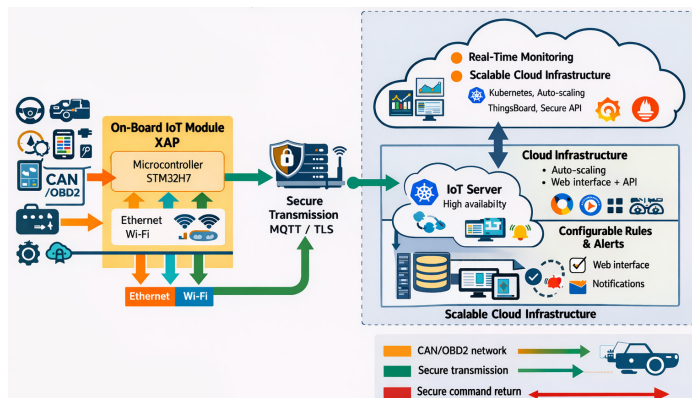


4G TELEMETRY TRANSMITTER



XAP EXPERTISE IN EMBEDDED SYSTEMS

With 30 years of experience in motorsport electronics and embedded engineering, XAP designs advanced hardware solutions for data acquisition, communication and control in the most demanding environments.

The XAP 4G Telemetry Module is a compact and powerful embedded gateway designed to collect vehicle data and transmit it in real time through cellular networks.

Built for motorsport, R&D and industrial applications, it combines robust hardware architecture, high-speed data acquisition and seamless connectivity, making it ideal both as a standalone communication module or as part of a complete telemetry ecosystem.

HIGH-PERFORMANCE DATA TRANSMISSION

REAL-TIME DATA TRANSMISSION (UP TO 20 HZ):

High-frequency telemetry streaming over 4G/LTE enables real-time monitoring of critical vehicle data.

SEAMLESS CAN INTEGRATION:

Direct CAN bus connection enables the acquisition of hundreds of vehicle parameters from ECUs, sensors and control systems.

STANDALONE OR SYSTEM INTEGRATION:

Can be used as an independent IoT gateway or integrated into the full XAP telemetry ecosystem.

ROBUST EMBEDDED DESIGN:

Engineered for harsh environments including vibration, temperature variations and high electrical constraints.

SMART DATA BUFFERING (24H):

Local storage ensures continuous data recording and automatic synchronization after network recovery.

MULTI-PROTOCOL CONNECTIVITY:

Supports CAN, Ethernet, USB and wireless interfaces for flexible system integration.

FLEXIBLE SIM MANAGEMENT:

Compatible with SIM and eSIM for global deployment and simplified connectivity management.

BIDIRECTIONAL COMMUNICATION:

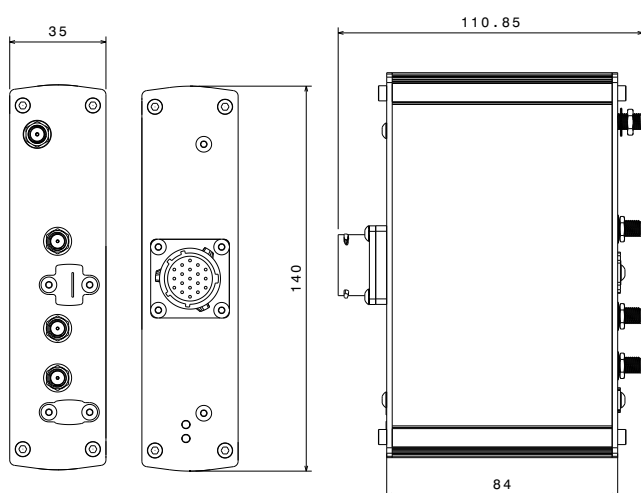
Enables remote configuration, control commands and firmware updates.





► TELEMETRY, VIDEOS: 4G TELEMETRY MODULE

DIMENSIONS



TELEMETRY MODULE SPECIFICATIONS

Processor	STM32H7 embedded CPU
Data acquisition	CAN bus data acquisition
CAN interfaces	3 CAN buses (including 1 eCAN)
Ethernet	Integrated Ethernet PHY
USB interface	Yes
Status indicators	RGB status LEDs
OS	RTX Real time

DATA MANAGEMENT

Streaming rate	Up to 20 Hz
Buffer memory	Up to 24 hours
Transmission modes	Real-time / buffered
Data integrity	Timestamped data

ELECTRICAL & ENVIRONMENTAL

Vehicle interface	CAN bus
Power supply	Power input 8-70V protection against reverse polarity + filtration
Operating environment	Motorsport / industrial environments -10°C to 80°C
Installation	Vehicle embedded module

CONNECTIVITY

Cellular	4G / LTE
Wi-Fi	Integrated
Bluetooth	Integrated
Ethernet	Integrated
SIM	SIM / eSIM support
GNSS	GPS support

PROTOCOL & PLATFORM

Applications	MQTT, MQTTS, HTTP, HTTPS, REST
Transmission	TCP, UDP
Security	TLS, SSL, JWT, Token, QOS Configuration

AUDIO & ADDITIONAL INTERFACES

Codec audio	16 / 24 / 32 bits
Uses	Intercom Two-way voice communication
USB	USB 2.0

REFERENCES

PF0950	4G TELEMETRY TRANSMITTER
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