

High Data Rate Transmitter

(following DVB-S2 standard)

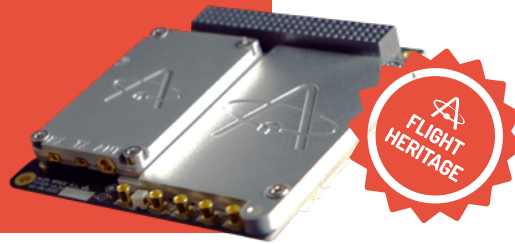
by SDR Technology



The Alén Space **High Data Rate Transmitter** is a **TOTEM SDR based**, on-board processing (OBP) / programmable FPGA, **DVB-S2 transmitter** for nanosatellites and CubeSats.

The DVB-S2 payload bundle includes:

- TOTEM SDR Motherboard
- DVB-S2 SW application
- S-band Frontend
- Optional: S-band antenna



Payload Characteristics

- Different DVB-S2 modulation schemes:
 - QPSK
 - 8PSK
 - 16APSK
 - 32APSK
- Up to 2MB/s data rates
- S-Band: 2200MHz-2290MHz
- High data rates
- Secure communications

General Specifications

- PC/104 form factor
- Mass: < 130 g
- Power supply: 5V
- TX power: -10 dBm +- 1 dB
- Bandwidth at 3dB: 600 KHz +- 15 KHz
- Power consumption:
 - <= 2.4W in TX mode:
 - 1.4 W in stand-by mode
- Multiple interfaces: CAN, UART, I2C, Ethernet
- Operational temperature: -40oC to 85oC

> **TOTEM SDR Technology** enables safe in-orbit updates and Multi-Application use

> Check our Multi-Application payload brochure!



Small Satellites: Turnkey
Solutions for Space Business

www.alen.space
info@alen.space
+34 986 119 366