



HIGH-SPEED X-BAND TRANSMITTER

X-band transmitter with variable output power for low-speed onboard/ground telemetry links

Technological advantages

High-performance technology

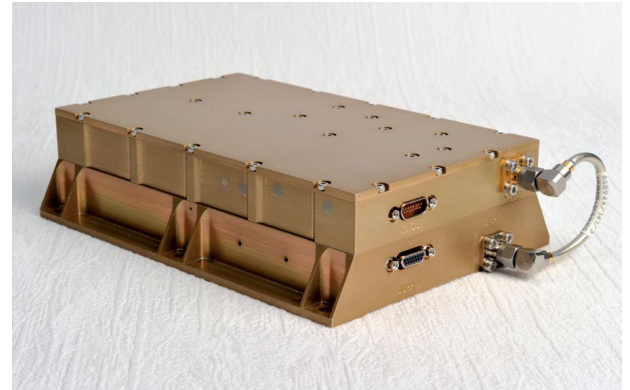
Excellent radio performance levels at 8GHz thanks to innovative architecture
 Power levels can be adapted in flight to minimise energy consumption based on link budget
 Low consumption: < 45W for 10W in RF output
 In-orbit radiation tolerance: 10krad
 Heavy ion protection system

A flexible system

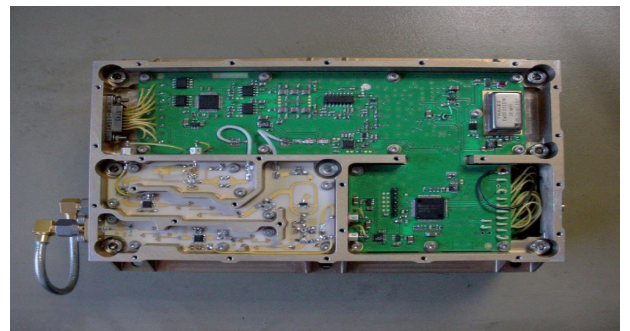
Adjustable speeds up to 100Mbps
 Adjustable frequency plan between 8025 and 8450MHz at 400kHz increments
 Adaptable output power between 30 and 40dBm (10W) at 1dB increments
 Possible to set output power to 1W with extremely low consumption (<9W)

Product is easy to integrate

Compatible with ECSS and CCSDS space recommendations
 Reduced dimensions: 160 x 115 x 46mm³
 Low weight, in machined casing: 1kg



High-speed x-band transmitter



Commercial benefits

A sound investment

Transmitter made almost exclusively of commercially-available components (off-the-shelf construction), meaning lower costs
 Reuse of R&T technological modules developed by CNES
 Can be manufactured in large-scale series by the manufacturer of the technology

Potential applications

- Orbital telemetry payloads
- Aerial drones
- Tactical data transmission

Pre-industrialisation in progress

For further information