The Launcher Telemetry Transmitter is a new product in the comprehensive tracking and telemetry product suite of Thales Alenia Space in Spain, with a flawless track record of more than 500 units delivered to our customers spanning S and X-band TT&C transponders, C, X and Ku-band telemetry transmitters for all types of space missions and applications: telecommunications, navigation, Earth observation, science, exploration, orbital infrastructure and space transportation.

COMPETITIVE ADVANTAGES

/// New product based on large know-how and design skills
/// Cost optimized solution
/// Global coverage access mode through data relay satellite systems (TDRSS…)
/// Flexible design allowing configuration of the RF downlink parameters through a digital interface:
• Transmitted power (10W, 30W, 40W)
• Carrier frequency (2180 to 2300 MHz)
• Modulation type (BPSK, PCM/FM, QPSK, SO-QPSK, SQPN)
• Bit rate (125kbps up to 4Mbps)
/// Scalable design to cope with extended bit rates (up to 32Mbps)
Mass: 2.1 kg
Dimensions (W x L x H): 240 x 235 x 45 mm³
Primary bus voltage: 20V to 34.5V
TM/TC housekeeping interface: RS422

Modulation schemes: BPSK, PCM/FM, QPSK, SO-QPSK, SQPN
Bit rates: 125 kbps … 4 Mbps
Carrier frequency (S-Band): 2180 to 2300 MHz
RF Output Power: 10W, 30W, 40W
Frequency diversity

EXPERIENCE

On-going development for Ariane 6 and VEGA launchers
Over 330 S band transponders delivered worldwide for all type of space missions
Over 180 C, Ku and X band transmitters delivered for space programs

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