

## S Band Transmitter for Small Satellites with Ultra-small Form Factor

04.2021

### Highlights

- High-speed data links
- Miniaturized, low power transmitter
- Turbo-Code FEC
- Downlink/TM & Payload up to **1.6 Mbps**



**HiSPiCO** is a transmitter system for S band communication links for small satellites in LEO environment. It is a cost effective, miniaturized, low power solution for CubeSats and achieved TRL 9. The wideband downlink system provides up to 1.6 Mbps at frequencies from 2.1 to 2.5 GHz. Optional matching patch antennas are available.

### Key Specifications

S Band Tx Operation: 2.100-2.500 GHz

Data Rate: Up to 1.6 Mbps

Operational Mode: DQPSK

Linear RF Output Power: Up to +27 dBm  
(optional up to +30 dBm)

Low Power Consumption: <5 W @ +27 dBm

DC Supply Voltage: 3.3 - 5.0 V

Ultra Small Volume: < 0.1 U

Low Mass: 100 grams

Technology Readiness Level (TRL): 9