LPXTT&C

Space Component TT&C Modem System

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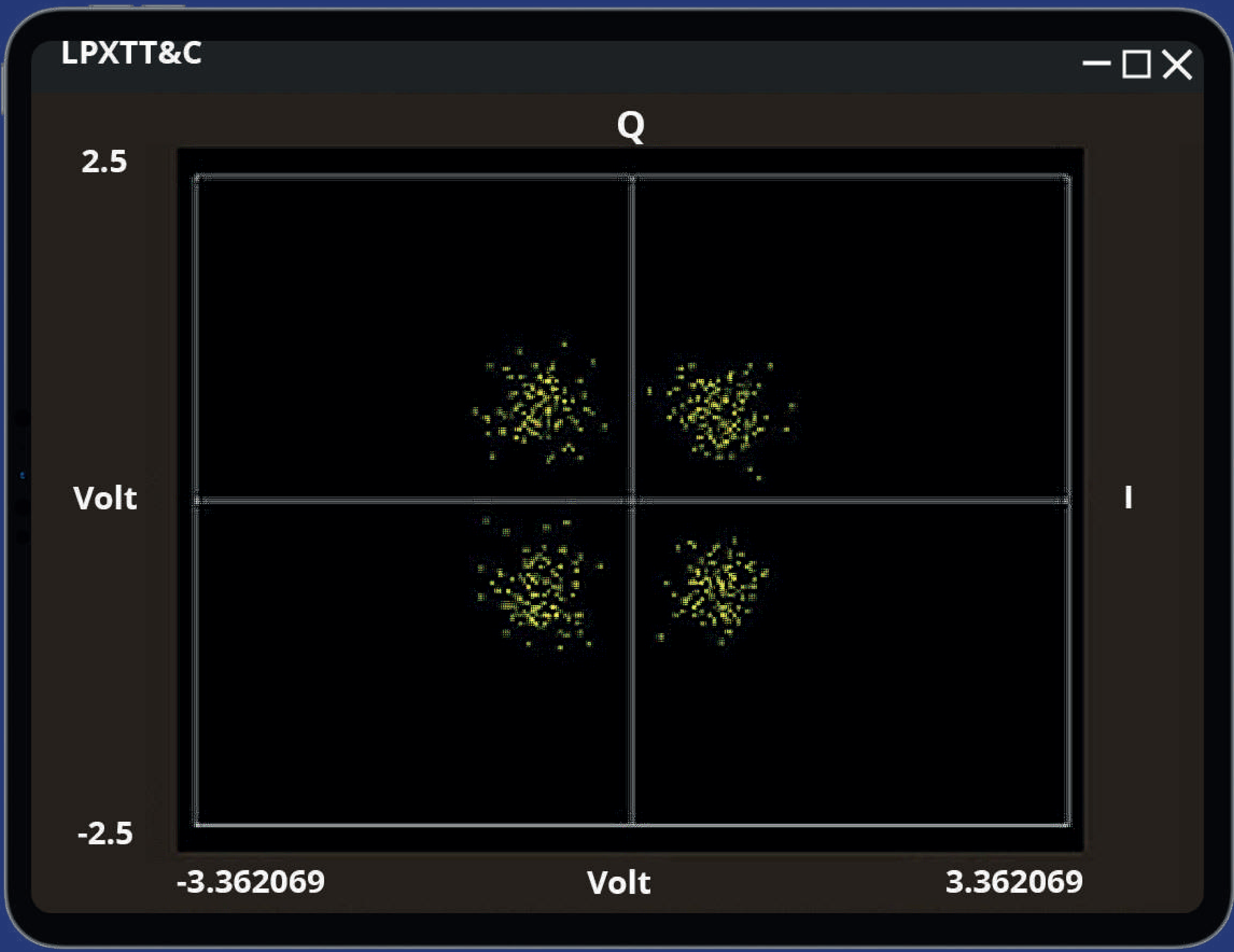
CAPEX or SaaS



BEST GROUND STATION & SATELLITE COMMUNICATION COMPONENT

First developed space component modem of the TT&C system

www.integrasys-space.com

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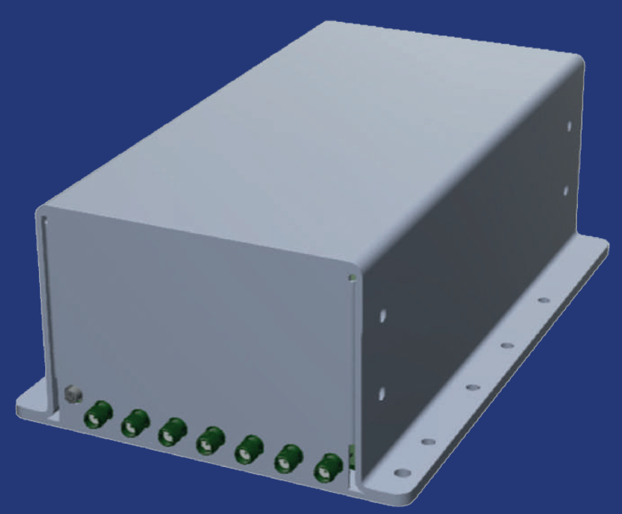
Competitive Advantage

- Radiation hardened.
- Interfaces adapted to mission requirements.
- Receives, demodulates, decodes, and converts RF signal information into data, and viceversa.
- Most protected TT&C and satellite communication component and ground station.
- Frequency adapted to mission requirements, from 47 MHz to 6.0 GHz.

ONBOARD



VIRTUAL GROUND

Features

- Operational frequencies from 47 MHz to 6.0 GHz.
- SMA connectors for RF lines in ground COTs.
- RS485 full-duplex data interface in space COTs.
- Telemetry bandwidth selected between:
  - 32 kHz
  - 128 kHz
  - 256 kHz
  - 512 kHz
  - 1024 kHz
  - 1 MHz
  - 2 MHz
- Telecommand bandwidth selected between:
  - 8 kHz
  - 16 kHz
  - 32 kHz
  - 120 kHz
- Weight: 750 gr. 1 kg - ground version.
- Dimensions: 200 mm x 135 mm x 75 mm.
- Spreading factor: 0 - 4.
- Optical Encryption Module.

Benefits

- Configuration power signals as low as -154 dBm.
- Transmission modem power up to 10 dBm.
- +/- 50 Hz frequency stability.
- +/- 0.4 dBm power stability.
- Transmission and reception badwidth controlled via GPIOs.
- Power consumption is around 10 W.
- It can function for satellites in LEO, MEO, GEO, and HEO orbits.
- Simple installation adapted to mission requirements.
- ECSS Packet format compliant.
- Integrated with Orbisat, CleanRF, Layer1 Encryption.

CONNECT	COMMAND
Telecommand	Telemetry

Company Awards