HelioX COSMOS

陽翼先進科技有限公司

Your Gateway to the Stars

HelioX Cosmos *provides you flexible, affordable and responsive solutions ranging from small satellite launch business to space outreach activities and together explore the NewSpace market.*

SOLUTIONS

SPACE LAUNCH SERVICE / BUSINESS DEVELOPMENT

SATELLITE COMPONENTS / TECHNICAL SUPPORT

SPACE EDUCATION / OUTREACH

Ver. March 2020

HelioX COSMOS

CubeSat

COMMUNICATION MODULE PRODUCT

TT&C
Transceiver Module

LETS-4343 Series (TX437 / RX437)

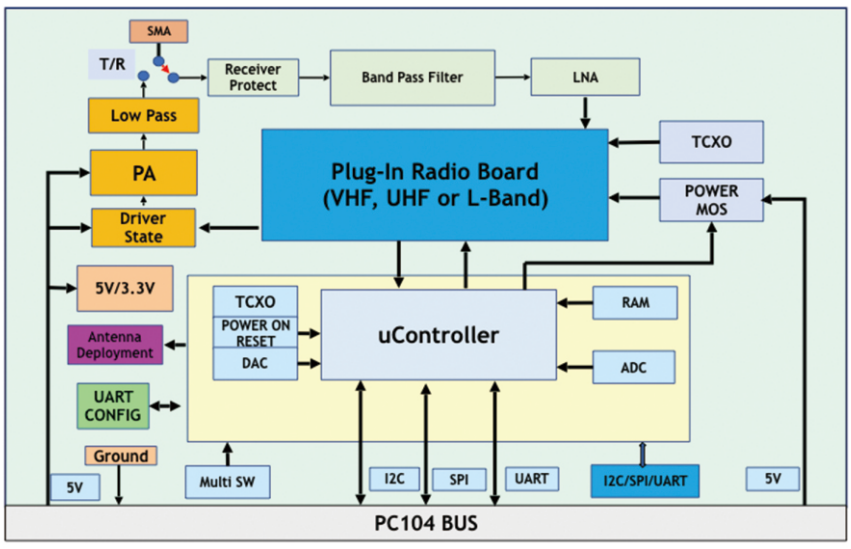
Description:

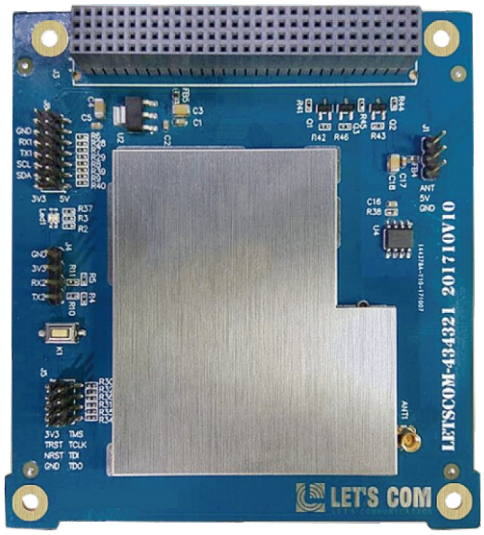
LETSCOM LETS-4343 series CubeSat TT&C Transceiver is a high-performance, low-current transceiver covering the frequency bands from 410 to 525 MHz customized (General version 430~442MHz Amateur Radio Band).It include a complete line of transmitters, receivers, and transceivers covering a wide range of applications. It offers outstanding receive sensitivity of –126 dBm while achieving extremely low active and standby current consumption.

The 60 dB adjacent channel selectivity with 12.5 kHz channel spacing ensures robust receive operation in harsh RF conditions, which is particularly important for narrow band operation. The LETS-4343 series offers exceptional output power of up to +30 dBm with outstanding TX efficiency. The devices can meet worldwide regulatory standards: FCC, ETSI, and ARIB.

General Specification:

- Input Voltage: 4.75~5.5V
- Operating Frequency
  - TX/RX 410~525 MHz
  - RF Power:30dBm Adjustable / customized
  - Half Duplex
  - RF Connectors: MMCX
- Power Consumption:
  - Sleep: 1mW
  - RX: 120 mW
  - TX: 0.2~4W
- Operating Temperature: -40°C to +85°C
- Two Thermal sensors on board
- Data Interface: UART/SPI/I2C 3 Types
- Data Connector: PC104/PH2.0 Header 2 Types
- Receive Sensitivity: -126 dBm, (9.6kbps,GFSK,BER<0.1%)
- Modulation: (G)FSK, 4(G)FSK, (G)MSK
- Configuration Interface: UART
- Easy configuration on PC Host
- Data Rates: 100 bps to 300K bps
- 127 dB Dynamic Range RSSI





The specification subject to change without notice.

SPACE AGENCY CERTIFIED

Product of LET'S COM LET'S COMMUNICATION

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