

"Aqui onde a terra se acaba e o mar começa..."



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



CubeSat

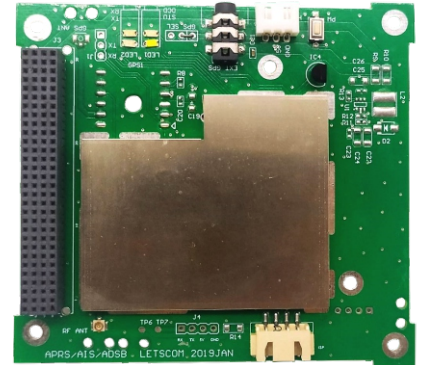
COMMUNICATION MODULE PRODUCT

APRS Payload Module

Description:

APRS (Automatic Packet Reporting System) enables real-time repeat* or forward positioning and data of ground tracking equipments, such as vehicles, animals, plants, ranging from ecological, industrial to civil purposes and various applications.

*Real-time repeat: This optional function is disabled. The packet data real time repeater function is determined by frequency coordination and project application.

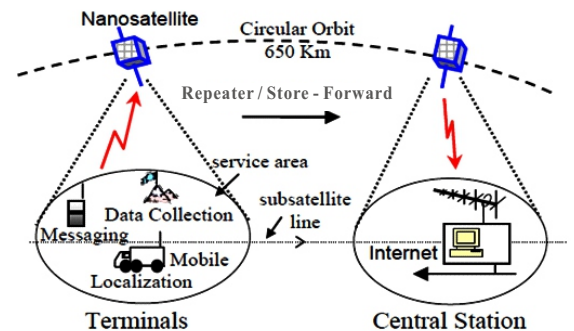


In the figure shown on the right, the data collect function could be configurable for repeater or store-forward to the ground station.

Applications:

The APRS payload "Real Time Repeater" / "Store & Forwarding" applications are:

- ◆ APRS - Vehicle and vessels positioning with data collection
- ◆ APRS - Ecological & seismic / tracking & detection: birds, animals, landslides, etc.
- ◆ APRS - Ocean windmills, widespread area power grid management



Payload Specification:

General Specification:

- Power Supply: 5V
- Power Consumption: 800mW.
- Operating Temperature: -20°C to +80°C
- Temperature Sensor
- Dimension: PC104 size compatible

APRS Specification:

- Receive Sensitivity: -126 dBm
- RX Frequency: 140-175MHz / 400-480MHz
- TX Power: 30/27dbm (optional)
- Modulation Schemes: FSK
- Data Rates: AX.25 1200bps
- RF connector: IPX
- Data Interface: UART TTL standalone.

