Mark-G

Reconfigurable GPS Receiver

Key Features

- **Indigenous design**
- **Re-configurable**
- **Data protocol of users' choice**
- **Upgradeable – with minimum hardware modification**

Mark-G is especially designed and developed as re-configurable GPS receiver.

The unique feature of re-configurable design allows receiver features and capabilities to fulfill mission requirements.

Be it the accuracy, the position integrity or the interface compatibility, Mark-G offers ample flexibility to shift the performance focus.

The receiver is based on an embedded platform (FPGA/DSP) and is capable of operating with lesser power consumption to allow longer duration of operations.

Standard Features

- Independent GPS Receiver with real-time operations
- GPS Support with upcoming up gradations to BeiDou
- Customizable design to accommodate functionality/performance enhancements
- Data protocol including standard GPS NMEA format
- Access to raw data for solution improvement

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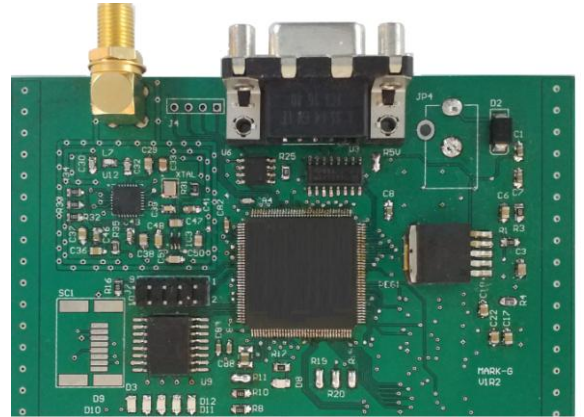**PAKISTAN SPACE AND UPPER ATMOSPHERE RESEARCH COMMISSION**

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Indigenous GPS Receiver

The design allows incorporation of latest algorithms without hardware modification.

The design allows feature set update. Let your mission define what Mark-G focuses on.

The data protocol of users' choice allows providing standard GPS NEMA and user proprietary format.

The design customization possibilities allow form-factor changes as per available installation space.

Performance

- Positioning Accuracy (2D CEP): 10m
- Update Rate: 1Hz
- Tracking channels: 12
- Time-to-First-Fix: 60s (typical)
- Sensitivity: -160dBm

Physical

- Dimensions: 140 x 100x 50 mm (L x W x H)
- Weight:600gm
- Supply Voltage: 5V
- Power Consumption: 3W
- Operating Temperature: 0° to 55° C

Interfaces

- RF Interface
  - SMA

- Data Interface
  - RS232

- External Clock
  - SMA

Optional Features

- RF Interface
  - MCX
  - Built-in Antenna

- Data Interface
  - USB
  - Digital GPIO

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