



# Gaia™100

## Earth Observation Ground Stations

Gaia™100 system is an advanced Earth Observation Ground Station solution that meets the market demand for high performance yet low-cost, ground stations.

The system is an adaptation of Orbit's high-performance Satcom OceanTRx™ maritime product line whose solutions are designed for mission-critical operations. The Gaia™100 product line leverages decades of innovation, robust, reliable fielded experience and thousands of systems operating worldwide. Orbit's solutions represent a low-risk, high performance, heavy-duty solution for Earth Observation satellite tracking applications and are backed by a worldwide support network.

### **Optimal for multi-mission operations**

- Built for Heavy-duty operation
- Advanced scheduler
- Full hemispherical coverage with no "keyholes"

### **Unmanned rural deployment operation suitability**

- Unmanned Remote operation
- Very low power consumption
- Radome protection from winds, dust, moisture and extreme temperatures
- Preventive maintenance free

### **"Virtual" Ground Station**

- Built for Heavy-duty operation
- Full hemispherical coverage with no "keyholes"
- SW ICD for external NMS integration
- Gaia™100 is Base-Band modem agnostic
- Unmanned Remote operation



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## Gaia™100 Highlights

- Large install base, close to 100 systems delivered to date
- Low program risk due to the vast experience with S-Band, X-Band and Ka-band
- Delivery of tested, fully functioning systems based on Orbit's experience and screening processes.
- Built for Heavy-duty operation
- Full hemispherical coverage with no "keyholes"
- A radome, allowing "anytime, anywhere" operation while supporting high system operation life span
- User friendly GUI
- The basic configuration includes RSSI tracking
- Cloud connectivity ready
- Unmanned Remote operation.
- Receive and transmit frequencies in L, S, X and Ka-band plus combined frequency ranges
- Compact footprint ensures fast, low-cost installation
- Very low operation power consumption

Orbit's broad portfolio and knowledge base place the system at the forefront of the tracking & telemetry market. Through the combination of our diverse strengths and advanced engineering, we provide higher-performance solutions to its customers.

