SIERRA MC2
MULTICHANNEL • MULTIPURPOSE
AERO SATCOM TRANSCEIVER

THURAYA · TETRA · GSM · 3G · 4G
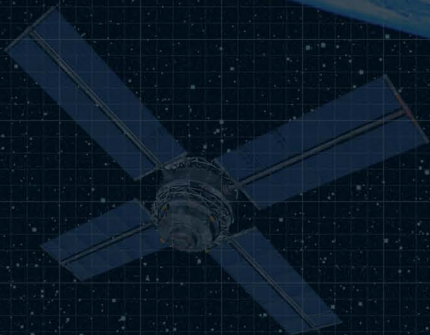
SATCOM SYSTEM
AERONAUTICAL SATELLITE EQUIPMENT AND SERVICES

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High Quality Satellite Communication for Everyone

Stay in touch no matter where you're flying with Sierra-MC SatCom System equipment on board your aircraft. Our state of the art hardware and software is affordable to install and easy to operate. You'll get reliable service with each system. Each is custom-configured for your aircraft

Take a look at these features:

✓ **Smallest autonomous aeronautical satellite system on the market**

✓ **Can be installed almost anywhere into any aircraft**

✓ **VVIP/VIP Telephony, Internet, Fax and Data system (DECT)**

✓ **Simultaneous voice, SMS, M2M, Internet and Data activity**

✓ **Asset tracking and management. AERO 000I record and notification**

✓ **Send automated SMS alerts with GPS position with UAD technology**

✓ **Receiver works with Thuraya1, Thuraya2, GSM and Tetra Networks**

✓ **Unique tri-channel 3.5" patch antenna with active filtered GPS**

✓ **TIP/RING, VoIP full PBX functionality** (LAN, RS-232, USB & Arinc 429 Bus)

✓ **Digital and analog connectivity for remote application and sensors**

✓ **Optional remotely configurable system (via SMS)**

✓ **MIL & DO-160E fully compliant**

SatCom System provides complete product and service guidance to help you set up the SatCom configuration that suites your needs. With over 12 years experience we can help you with all your communication requirements and support for years to come.
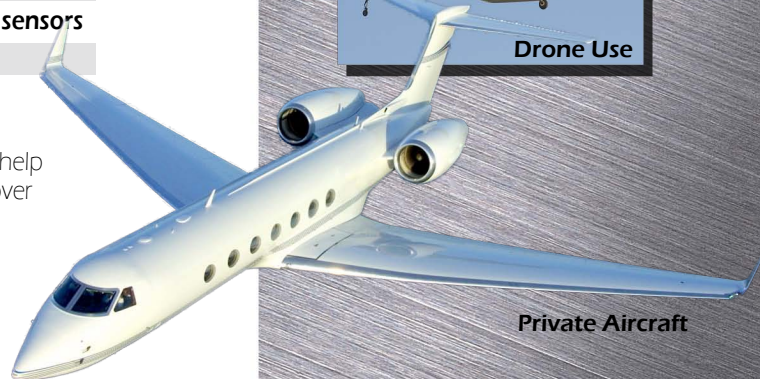
THURAYA **TETRA** GSM 3G 4G

Government Aircraft

Military Aircraft

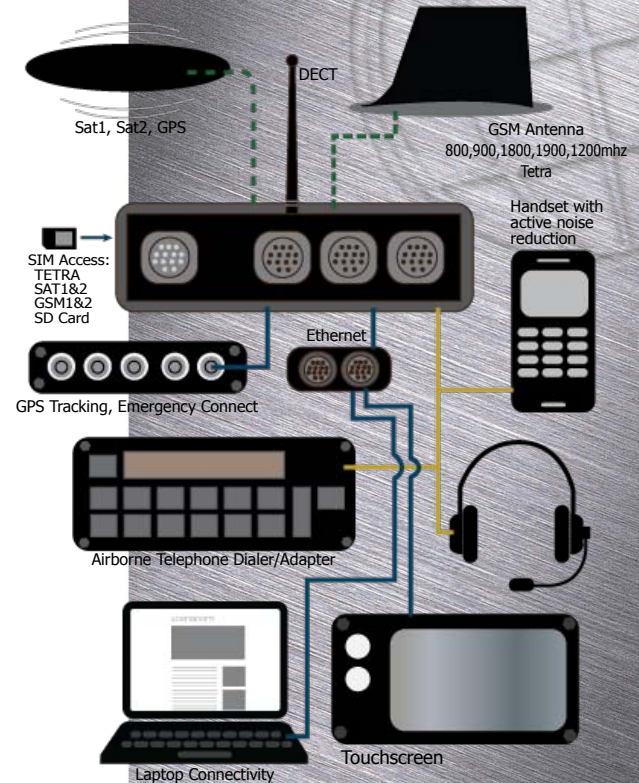
Drone Use

Private Aircraft

Sierra MC2 Functionality

Our Sierra MC2 system is extremely flexible and adaptable to the needs of each situational use and each aircraft. We have created a system that functions well together and offers maximum features for those that need them as well as the ability to add on features at a later date.

Systems Include:

- ✓ **Four simultaneous channels** (Thuraya1, Thuraya2 or Sat2, GSM, Tetra (voice, data, SMS)
- ✓ **Independent GPS port for government receivers**
- ✓ **Change SIM cards instantly via "maintenance flap." No LRU removal**
- ✓ **SIM card auto soft swap for maintaining Thuraya communications**
- ✓ **DECT modem for local loop wireless headset connection**
- ✓ **PCI express slots (2) available for specific hardware and applications**
- ✓ **Anti-echo DSP system for high level sound and ICS compatibility**
- ✓ **Emergency power supply capability for rescue beacon**
- ✓ **Very high immunity against electromagnetic pulse (EMP)**
- ✓ **Tetra modem for government communications (optional)**
- ✓ **Independent GPS port for government receivers (optional)**
- ✓ **Dead Reckoning (optional)**
- ✓ **Aircraft transponder "off" detection (optional)**
- ✓ **Transponder message discrepancy resolver (express board required)**
- ✓ **Flight voice recorder (optional)**
- ✓ **Flight plan recorder (optional)**

Systems compatible with: PTA12-100, 200, 300; Aircell handsets, Honeywell, Rockwell-Collins and other products.

Sat1, Sat2, GPS

DECT

GSM Antenna
800,900,1800,1900,1200mhz
Tetra

Handset with active noise reduction

SIM Access:
TETRA
SAT1&2
GSM1&2
SD Card

Ethernet

GPS Tracking, Emergency Connect

Airborne Telephone Dialer/Adapter

Laptop Connectivity

Touchscreen

Example Setup: Government Aircraft

The Sierra MC2 system fits easily in compact space and provides a wide range of communication abilities

Systems Include:

- ✓ Wired or wireless handset for passengers
- ✓ Cockpit dialer allows pilot to connect directly to the ICS and SatCom system for cockpit to cabin communications
- ✓ Send FLIR images to ground location through data services
- ✓ Air to air communications
- ✓ Four voice and data channels
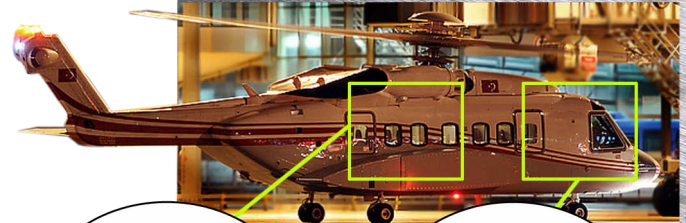
Example Setup: Private Aircraft

Crystal clear communications keeps executives in touch during flights

Systems Include:

- ✓ Voice calls and intercom through handsets
- ✓ Cockpit to cabin communications with privacy function
- ✓ Internet, Bluetooth, Fax capabilities for laptops or mobile
- ✓ Aircraft tracking via SMS with location display in control center using Aerosoft mapping server
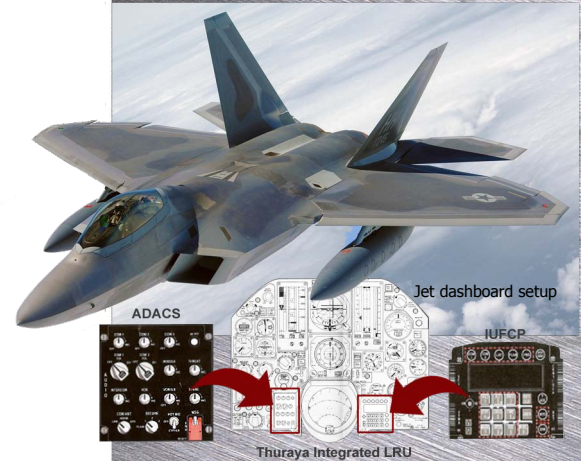
Example Setup: Fighter Aircraft

The Sierra system fits is one of the first SatCom systems to be installed in multipurpose aircraft because of the unique system characteristics it offers.

Systems Features:

- ✓ Unique antenna installation location provides clear communications during +/- 65 degree maneuvering
- ✓ Direct dial up for voice calls or data transmission
- ✓ Control systems integrated into most typical display panels
- ✓ Image transmission capability
- ✓ Encrypted transmission

Jet dashboard setup

ADACS

IUFCP

Thuraya Integrated LRU

Example Setup: SAR Aircraft

Because Sierra MC2 offers a wide range of feature configurations it is in high demand by multipurpose aircraft suppliers.

Systems Include:

- ✓ Pilots can connect directly with ICS and SatCom systems
- ✓ In-cockpit single button dialing system. Passenger access as well.
- ✓ Air to air communications capabilities
- ✓ Send FLIR images to home base via data services
- ✓ Alert panel sends GPS position to base
- ✓ Link to TETRA emergency network

Sierra MC2
Premium SatCom Control for Specialized Use

The Sierra MC2 provides the same high quality workmanship as the MC with a different feature set for alternative situations.

MC Systems Include:

- ✓ **Voice and data transmission capabilities**
- ✓ **Use for; satellite network, 3G/4G GSM network communications**
- ✓ **Integrated 72 channel GPS technology**
- ✓ **Durable construction, built for extreme conditions**
- ✓ **Specially built for air craft, aerospace and other demanding use**
- ✓ **Custom programming available using standard LINUX code**
- ✓ **Capable of multiplexing between functions at any time**

Sierra Applied to Drone Use

Ideal device to communicate with remote operated aircraft

- ✓ **Digital audio and 16kbp GmPRS data transfer**
- ✓ **SBD/SMS communications and event management**
- ✓ **Only 50 grams (including antenna)**
- ✓ **Multiple configurations available**
- ✓ **Integrates a FMU (flight management unit) with ability to autopilot most types of drones and A/C.**
- ✓ **Optional broadband DATA up to 400Kbps/channel**