



SYSTEM FACTS

Phone (User-Terminals):

- Multi-mode phones, allowing user to choose between cellular and satellite mode
- Voice mail*
- Short messaging service (SMS)*
- Asynchronous (circuit-switched) and packet-switched data capability for connection to Internet and other data networks.*
- Air interface (in satellite mode): CDMA with encryption
- Transmit frequency: 1610-1621.35 MHz
- Receive frequency: 2483.5-2500 MHz
- IS-41 tri-mode, GSM dual-mode phones available
- Global positioning display*

Satellite Technology:

- Overlapping satellite pattern results in fewer dropped calls and more completed calls
- CDMA technology provides superior voice quality and security
- Satellite software resides on and is monitored from the ground, allowing fast, cost-effective system maintenance and upgrades
- Worldwide network of in-country partners ensures superior service to its customers
- Satellites are placed in eight orbital planes of six satellites each, inclined at 52 degrees to provide coverage on Earth from 70 degree North latitude to 70 degrees South
- Satellite design is simple and proven. Each satellite consists of an antenna, a trapezoidal body, two solar arrays and a magnetometer, and operates at an altitude of 1414km (876 miles)
- Satellites utilize "bent-pipe" architecture. On any given call, several satellites transmit a caller's signal via CDMA technology to a satellite dish at the appropriate gateway where the call is then routed locally through the terrestrial telecommunications infrastructure
- IS-41 tri-mode and GSM dual-mode phones available
- Global positioning display*

Gateways

- Gateway receives transmissions from orbiting satellites, process calls, and switch them to the appropriate ground network
- Each gateway serves an area of well over 1-2 million square miles or more
- Gateways consist of three or four dish antennas, a switching station and remote operating controls
- All of the switches and complex hardware are located on the ground, making it easier for Globalstar to maintain and upgrade its system. Satellite systems that handle switching on-orbit, passing calls between satellites, cannot be serviced or upgraded
- Gateway offer seamless integration with local and regional telephony and wireless networks. They utilize a standard T1/E1 interface to the existing PSTN/PLMN systems. Encryption ensures voice and signaling security for individual transmissions

** Features not available from all phones in all locations. Please check with your local service provider.*

Globalstar™ Satellite Communication Services
Above and BeyondSM

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