Exhibit 4 Product Overview (Part 2.1033)

1.1 Technical Description

The GSP-1720 Globalstar Satellite Data Voice Modem (SDVM) operates in Globalstar mode only, communicating directly with overhead Globalstar satellites and via those satellites to the nearest Globalstar Gateway and through the Gateway the rest of the network. The service supports voice and data communications and provides user position location information. The User Terminal uses Code Division Multiple Access (CDMA) technology to provide secure, dependable service to the user.

1.2 Address of Manufacturer and Applicant 2.1033 (c) (1)

Manufacturer: Qualcomm Incorporated 5775 Morehouse Drive San Diego, CA 92121 Telephone: (858) 587-1121

Applicant: QUALCOMM, INC. 5775 Morehouse Dr. San Diego, CA 92121 Telephone: (858) 587-1121

1.3 FCC Identifier 2.1033 (c) (2)

The FCC identifier is: J9CGSSDVM

1.4 User Manual 2.1033 (c) (3)

See Error! Reference source not found.User Manual

1.5 Types of Emissions 2.1033 (c) (4) 1M25G1W

1.6 Frequency Range 2.1033 (c) (5)

Each Globalstar SDVM is capable of transmitting on any one of the frequency channels defined between 1610 and 1626.5 MHz. In the US and other countries where one or more TDMA mobile satellite service (MSS) low earth orbit (LEO) systems are authorized to operate, Globalstar SDVMs transmit (and are authorized to transmit) in only the lower 9 of the 13 channels, operating in the frequency range from 1610 to 1621.35 MHz. Depending on local Globalstar traffic conditions, a given SDVM may be assigned to operate on any of the authorized channels for a given call. Multiple access and efficient frequency re-use is provided by means of code division multiple access (CDMA) technology

1.7 Operating Power Levels 2.1033 (c) (6)

Active power control is employed in the Globalstar system to minimize collateral interference between proximate Globalstar subscribers, since as is true of any multiple access spread spectrum system, other users signals represent noise to a given users signal. Thus all signals are automatically reduced to minimum power levels by the system, transparently to the user. As defined in the Globalstar Air Interface (GAI) Specification (80-25118-1), the effective isotropic radiated power (EIRP) of a mobile UT operating at maximum power output is 2.5 Watts.

1.8 DC Supply and Current Range 2.1033 (c) (8)

The UT is powered by an external DC power supply, which provides a nominal 5.0 VDC (4.7-5.1 VDC range) at 0.1 to 1.0 Amperes current draw, 5.1 Watts maximum load. Power to the transmitter power amplifier (PA) passes through multiple switching and analog power regulator stages, and the PA is not affected by any changes in the supply voltage. It is thus immune to any effects of voltage fluctuation within the defined DC power voltage input range of the UT. Outside that range the UT simply shuts down.

1.9 List of Semiconductor Active Devices 2.1033 (c) (10)

See Exhibit 11-Parts List.

1.10 Circuit Diagram 2.1033 (c) (10)

See Exhibit 10-Schematics.

1.11 Transmitter Adjustment Procedure 2.1033 (c) (9)

All frequency adjustments are set at the factory and there are no frequency field adjustments for this product. The transmit frequency is locked to the base station and controlled by VCTCXO adjustments to offset any possible errors.

1.12 Frequency Stability Device 2.1033 (c) (10)

All RF oscillators are phase-lock loop locked to the output signal of a voltage controlled temperature compensated crystal oscillator (TCXO), the master oscillator of the system.

It is specified to provide frequency accuracy to better than 10 parts per million over the UT's 5 year design life, with +/-5 ppm allocated to TCXO aging. Exhibit 13 details the temperature variation frequency stability test results which have been obtained. Due to the relatively large Doppler error inherent to an LEO communications system, transmit frequencies are locked to the TCXO signal and are not adjusted based on frequency differences with respect to Gateway transmitted signals.

1.13 Spurious Radiation Suppression Devices 2.1033 (c) (10)

See Exhibit 14 and Exhibit 15

1.14 Drawing of Equipment Identification Plate or Label 2.1033 (c) (11)

See Exhibit 5-Label.

1.15 Photographs 2.1033 (c) (12)

See Exhibit 6 and Exhibit 11

1.16 Modulation Technique 2.1033 (c) (13)

The Globalstar Air Interface uses a modified form of IS-95 to support Code Division Multiple Access. CDMA was selected for Globalstar because it represents a proven technology that can provide efficient modulation scheme for satellite communications. It is relatively interference tolerant, both from a standpoint of generation of interference to other services and tolerating outside interference. As a bonus, there is a level of security inherent in the modulation scheme. It is difficult to listen into conversations or to pirate services from the system. CDMA is able to provide good voice quality while operating at relatively low RF power levels. The Globalstar CDMA is based on the existing QUALCOMM CDMA product line used for terrestrial cellular communications.

1.17 Test Data 2.1033 (3) (14)

See exhibit 14, 15 & 16.

1.18 RF Block Diagram

See exhibit 6 block diagram