

1. The radio elements must have the radio frequency circuitry shielded. Physical components and tuning capacitor(s) may be located external to the shield, but must be on the module assembly;

All components are located beneath a common shield.

2. The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal;

There are no external modulation/data inputs. The device provides a TTL asynchronous serial port to the host processor which allows the device to be configured for operation and also allows the host device to provide the data to be contained in the transmitted payload. All data received via the serial port is buffered (stored in memory) by the ASIC microprocessor (internal to the ASIC) to be accessed when the actual transmission is generated using the RF processor (internal to the ASIC) and cannot affect the RF modulation or data rate or the RF transmission characteristics in any way. The modulation and data rates are fixed internally by the ASIC RF processor and cannot be affected by any external input.

3. The module must contain power supply regulation on the module;

The module contains an internal regulated power supply.

4. The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b);

Paragraph 6.2 of the User's Manual contains detailed instructions for the use of the specified antenna which satisfies the above requirements for single modular approval.

“The module provides a surface mount pad for the RF output which must be internally attached passively via the PCB to the approved antenna. No antenna connector or any other antenna may be used. In order for any device to obtain certification from Globalstar for use on the Globalstar satellite network under this modular approval, this condition must be met.”

Manufacturer	Part Number	Polarization	Center Frequency(MHz)	Peak Gain(dB)
Spectrum	PA25-1615-025SA	LHCP	1615 .25	3.0

These requirements are enforced as part of the Globalstar certification process whereby any device utilizing the STX3 module must be submitted to Globalstar for approval prior to being approved for provisioning for operation on the Globalstar satellite network. Adherence to these requirements is an integral part of the Globalstar certification process.

Since the intent of item 4 above is to ensure that only the approved antenna can be used with the STX3 (as reflected in the accepted use of a “unique connector”), the Globalstar certification and provisioning process constitutes a more stringent enforcement of item 4 than merely requiring a “unique connector”.

In summary, Globalstar will not certify ANY device using the STX3 module UNLESS the approved antenna is passively connected to the STX3 on a single circuit board. This meets the requirement 4 for Single Modular Approval.

5. The module must demonstrate compliance in a stand-alone configuration;

All compliance testing is accomplished with no external components; only power, antenna, and grounded or floating test pins.

FCC KDB 996369 D01Module Guide defines a split-modular device as follows:

Split-modular transmitter: a RF transmission system that complies with the requirements for a single-modular transmitter, that is separated into a radio front-end section and a control-element section, and can demonstrate compliance for a range of similar type hosts;

Since the STX3 contains all RF (including power amplifiers) and digital circuitry in a single integrated circuit, this device does NOT meet the requirements as a split-modular device.

6. The module must be labeled with its permanently affixed FCC ID label, or use an electronic display

The module will contain a FCC ID label.

FCC ID: L2V-STX3

7. The module must comply with all specific rules applicable to the transmitter. The grantee must provide comprehensive instructions to explain compliance requirements;

All applicable rules will be provided in the user manual for the transmitter

8. The module must comply with RF exposure requirements. For any transmitters intended for use in portable devices, SAR compliance must be demonstrated to be independent of the host device. See KDB Publication 447498 as a guide to determine if a transmitter can be tested without being limited to a host device. If SAR compliance can only be demonstrated in specific host types or platforms, then the module type must be “limited.”

Device will be demonstrated to comply with SAR (mobile devices) independent of host device. This device is not intended for use in portable devices. See RF Exposure Info document.