SLMOD0

The product supports LoRaWAN class A operation which is a simplex transmission or reception capability. The reception capability is time-limited per the LoRaWAN protocol, in order to save battery consumption.

Listed below are the main performance characteristics:

Features	*Description*
NFC	Read device version information
Modulation	LoRa
BLE	Bluetooth 5
Protocol	LoRaWAN v1.03
Frequency band	902-928MHz and 2.4-2.5GHz ISM Band
Activation	OTAA and ABP
Max Output power	+22dBm conducted
Microprocessor	nRF52840
Memory	ProgFlash 1MB RAM 256 kB
Transceiver	SX1262
RF Sensitivity	SF7/500Khz: -120dBm SF12/500Khz: -129 dBm
Sensitivity (conducted)	SF7/125kHz: better than -118dBm SF12/125kHz: better than -131dBm SF7/250KHz:+3dBr SF12/250KHz:+3dBr SF7/500KHz:+6dBr SF12/500KHz:+6dBr FSK /50kbps: better than -109dBm
Operating temperature	From -40°C to +60°C non-condensing,
Mechanical dimensions (in millimeters)	L 20.8 mm x W 24.4 mm x H 3.6 mm
Operating Temperature	Range : -40°C to + 60°C

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- 20cm away from body as per MPE

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The final end product must be labeled in a visible area with the following: “Contains FCC ID: P27-SLMOD0”. The grantee's FCC ID can be used only when all FCC compliance requirements are met.

This transmitter is tested in a standalone mobile RF exposure condition and any co-located or simultaneous transmission with other transmitter(s) or portable use will require a separate class II permissive change re-evaluation or new certification.

This transmitter module is tested as a subsystem and its certification does not cover the FCC Part 15 Subpart B (unintentional radiator) rule requirement applicable to the final host. The final host will still need to be reassessed for compliance to this portion of rule requirements if applicable.

As long as all conditions above are met, further transmitter test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed.