

9 March 2022



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FCC ID XX6SCG2229X

Change Identification Application to 47CFR2.933

This application has been made to add depopulated variants to the already approved SCG2229 covered under FCC ID XX6SCG2229W, to create a new FCC ID of XX6SCG2229X for models without the Bluetooth/WLAN module.

1. The original identification used on the equipment prior to the change in identification was XX6SCG2229W
2. The dates of the original grant of the equipment authorization were
  - a. 20 August 2020 for TETRA and Bluetooth on XX6SCG2229
  - b. 16 April 20221 for the addition of WLAN on XX6SCG2229W
3. Description of how the equipment bearing the modified identification differs from the original equipment:
  - a. The new equipment (XX6SCG2229X) is a subset of the original equipment (XX6SCG2229W) with the following changes:
  - b. The original equipment (XX6SCG2229W) has RF interfaces for Bluetooth, WLAN and TETRA.
  - c. The new equipment (XX6SCG2229X) has the Bluetooth and WLAN RF interfaces removed and just has a TETRA RF interface.
  - d. The original equipment (XX6SCG2229W) has a front panel console port.
  - e. The new equipment (XX6SCG2229X) has the front panel console port removed.
  - f. The original equipment (XX6SCG2229W) has ports for Ethernet and a GPIO port.
  - g. The new equipment (XX6SCG2229X) has the Ethernet and GPIO ports removed.
  - h. The original equipment (XX6SCG2229W) is supplied with an SD card.
  - i. The new equipment (XX6SCG2229X) has the option to be supplied with or without the SD card.
4. Original test results continue to be representative of and applicable to the equipment bearing the changed identification. In addition, we have completed some radiated emissions measurements to ensure the



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variants populated with fewer interfaces remain in compliance with the regulations. The interfaces themselves do not change their characteristics; they are either included or not.

5. Label documentation, an interior photograph document and an exterior photograph document are included as part of this application.

There are 4 hardware variants covered by the XX6SCG2229W and XX6SCG2229X FCC IDs, these relate to Sepura's commercial part numbers:

1-89\*A0-0\*\*\*\*, 1-89\*60-0\*\*\*\*, 1-89\*50-0\*\*\*\*, 1-89\*00-0\*\*\*\*

where \* may be any digit or character.

Commercial part number 1-89\*A0-0\*\*\*\* is the variant currently approved under FCC ID XX6SCG2229W.

The following table summarises the differences between the variants:

Hardware Variant	RF Interfaces	Non-RF Interfaces
1-89*A0-0****	TETRA Bluetooth WLAN GNSS	Ethernet GPIO Front Console Port Rear Console Port Power Input USB/GPIO SD Card
1-89*60-0****	TETRA Bluetooth WLAN GNSS	Rear Console Port Power Input USB/GPIO SD Card
1-89*50-0****	TETRA GNSS	Rear Console Port Power Input USB/GPIO SD Card
1-89*00-0****	TETRA GNSS	Rear Console Port Power Input USB/GPIO

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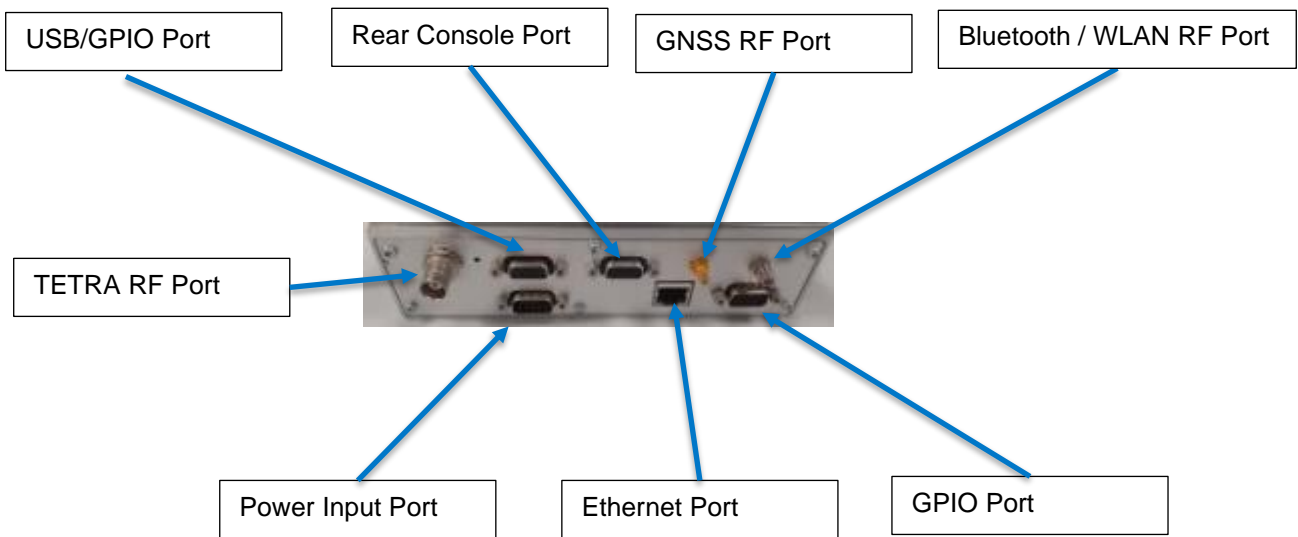


Port Identification – Front Panel



Front Console Port









Port Identification – Rear Panel



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The following table shows the difference between the front and rear panels on the variants:

Hardware Variant	Front Panel	Rear Panel
1-89*A0-0****		
1-89*60-0****		
1-89*50-0****		
1-89*00-0****		

Differences in radio frequency and RF output power: Where the RF interface is provided it has the same RF interface, with the same RF performance and same RF output power, as other variants.

Hardware Variant	TETRA	Bluetooth	WLAN	GNSS
1-89*A0-0****	40 dBm	4.2	802.11 b, g, n	GPS, Galileo etc
1-89*60-0****	40 dBm	4.2	802.11 b, g, n	GPS, Galileo etc
1-89*50-0****	40 dBm	No Bluetooth	No WLAN	GPS, Galileo etc
1-89*00-0****	40 dBm	No Bluetooth	No WLAN	GPS, Galileo etc

Differences in radio frequency circuitry. There is no difference between the RF circuitry of any of the variants. The only difference is whether the Bluetooth / WLAN module is included. All variants have TETRA and GNSS capability.

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#### Differences in functional characteristics

Hardware Variant	Description
1-89*A0-0****	This is a fully populated variant with Ethernet port, GPIO port, front and rear console ports, USB/GPIO port, power input port and SD card. This fully populated unit has been covered under FCC ID XX6SCG2229W
1-89*60-0****	This variant is based on the fully populated 1-89*A0-0**** variant but has the Ethernet port, GPIO port and front console port removed. Other than the removal of this functionality there are no changes made to the circuitry or RF performance of this variant compared with the 1-89*A0-0**** variant
1-89*50-0****	This variant is based on the 1-89*60-0**** variant. It has the Bluetooth/WLAN module removed, but other than that is the same. There are no other changes to the circuitry or RF performance of this variant compared with the 1-89*60-0**** variant.
1-89*00-0****	This variant is based on the 1-89*50-0**** variant. It has the SD card removed, but other than that is the same. There are no other changes to the circuitry or RF performance of this variant compared with the 1-89*50-0**** variant.

As can be seen by the information provided in this letter and exhibits in this application, all variants are subsets of the main variant tested and the test results are applicable to all variants. Radiated emissions testing has been completed on all variants to show that there are no differences when each variant's features are removed. No changes have been made to the circuitry, PCB layouts, RF performance or functionality between the variants, other than removal of functions.

Sincerely,

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