

20th November 2023


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Declaration of different variants of SCG2229 using new BT/Wi-Fi module  
1LV of Murata

### Defining all different variants of SCG2229

The units will all be certified under the FCC ID of XX6SCG2229M.

There are 2 hardware variants under this application, these relate to following Sepura's commercial part numbers.

- a) Commercial part number: 1-89\*A0-0\*\*\*\*, **SCG2229 Premium**.
- b) Commercial part number: 1-89\*60-0\*\*\*\*, **SCG2229 Standard**.

The following table summarises the differences between the variants:

| Hardware Variant / Market name   | RF Interfaces                      | Non-RF Interfaces   |
|----------------------------------|------------------------------------|---|
| 1-89*A0-0**** / SCG2229 Premium  | TETRA<br>Bluetooth<br>WLAN<br>GNSS | Ethernet<br>GPIO<br>Front Console Port<br>Rear Console Port<br>Power Input<br>USB/GPIO<br>SD Card |
| 1-89*60-0**** / SCG2229 Standard | TETRA<br>Bluetooth<br>WLAN<br>GNSS | Rear Console Port<br>Power Input<br>USB/GPIO<br>SD Card   |



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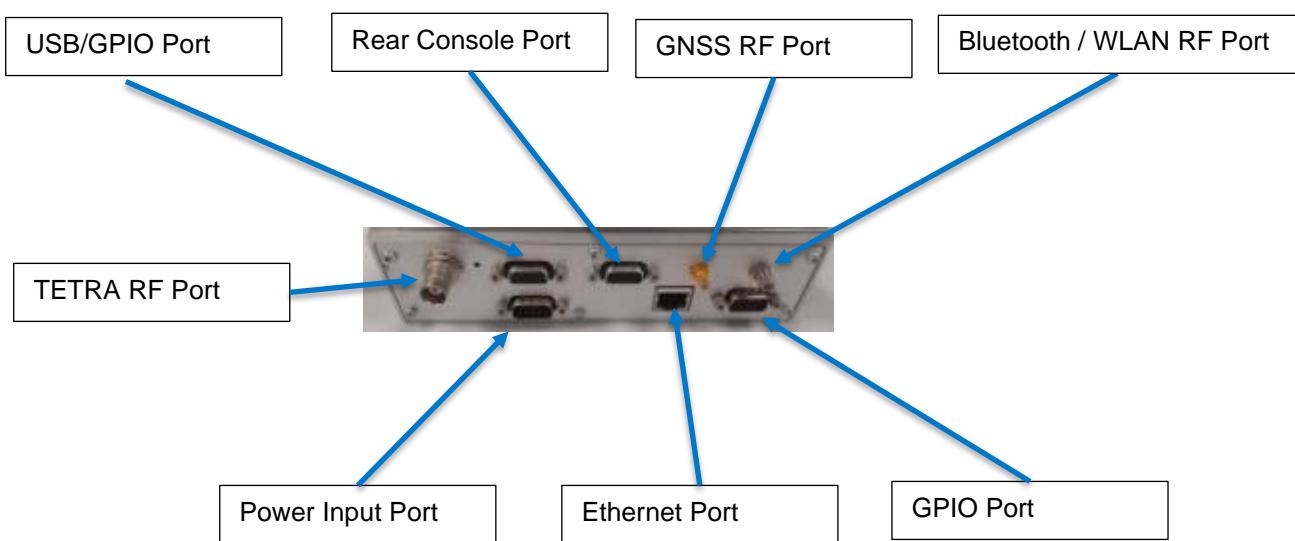
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## Port Identification – Front Panel



Front Console Port

## Port Identification – Rear Panel



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

| Hardware Variant /HVIN              | Front Panel | Rear Panel |
|-------------------------------------|-------------|------------|
| 1-89*A0-0**** / SCG2229<br>Premium  |             |            |
| 1-89*60-0**** / SCG2229<br>Standard |             |            |

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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 / HVIN          | TETRA         | Bluetooth | WLAN           | GNSS             |
|----------------------------------|---------------|-----------|----------------|------------------|
| 1-89*A0-0**** / SCG2229 Premium  | 40 dBm ±0.5dB | 5.0       | 802.11 b, g, n | GPS, Galileo etc |
| 1-89*60-0**** / SCG2229 Standard | 40 dBm ±0.5dB | 5.0       | 802.11 b, g, n | GPS, Galileo etc |

Differences in radio frequency circuitry. There is no difference between the RF circuitry of either of the variants. The only difference is in non RF interfaces. All variants have TETRA and GNSS capability.

Differences in functional characteristics

| Hardware Variant /HVIN           | Description  |
|----------------------------------|--|
| 1-89*A0-0**** / SCG2229 Premium  | 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.  |
| 1-89*60-0**** / SCG2229 Standard | This variant is based on the fully populated 1-89*A0-0**** ( <b>SCG2229 Premium</b> ) 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**** ( <b>SCG2229 Premium</b> ) variant. Same software is used on both variants. |

As can be seen by the information provided in this letter and exhibits in this application, **SCG2229 Standard** variant is a subset of the main variant tested and the test results are applicable to both variants. 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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