



# SL869 GPS/Glonass module compatibility with SL868

SL868 GPS Standalone	SL869 GPS/Glonass Standalone
 <p><b>MAIN FEATURES:</b></p> <p>SiRF Star IV – 48 channel GPS core 24-pad LCC package Size: 16 x 12.2 x 2.3 mm Sensitivity:</p> <ul style="list-style-type: none"> <li>Acquisition -148 dBm</li> <li>Tracking -163 dBm</li> </ul> <p>Supply voltage 2.85 – 3.6V Hot Start &lt; 1s, cold start &lt; 35s Power consumption:</p> <ul style="list-style-type: none"> <li>&lt;40 uA @ Hibernate mode</li> <li>10 mA @ Trickle power more</li> <li>32 mA @ Navigation</li> </ul> <p>Temperature range : -40 to +85°C Interfaces: UART, I2C (for MEMS only) Internal LNA, Jamming Remover Assisted GPS (InstantFix) PPS signal SBAS: WAAS, EGNOS, MSAS, GAGAN</p>	 <p><b>MAIN FEATURES:</b></p> <p>Multi GNSS Receiver GPS/Galileo/QZSS + Glonass 24-pad LCC package Size: 16 x 12.2 x 2.3 mm Supply voltage 2.85 – 3.6V UART Interface Sensitivity:</p> <ul style="list-style-type: none"> <li>Acquisition -146 dBm</li> <li>Tracking -162 dBm</li> </ul> <p>Assisted GPS (InstantFix) Local / Server Ephemeris predictions Embedded Flash Memory Internal LNA, Jamming Remover Low Power Modes PPS signal Temperature range : -40 to +85°C</p>

## SL869 pinout

24	GND	NC	1
23	VCC_IN	NC	2
22	VBATT	1PPS	3
21	RX	EXT_INT	4
20	TX	NC	5
19	SCL2	NC	6
18	SDA2	BOOT	7
17	NC	NC	8
16	NC	VCC_IN	9
15	NC	GND	10
14	NC	RF_IN	11
13	GND	GND	12

**J-N3 (SL868)**

24	GND	NC/RES	1
23	VCC_IN	NC/RES	2
22	VBATT	1PPS	3
21	RX0	NC	4
20	TX0	NC/RES	5
19	SCL2	NC/RES	6
18	SDA2	NC/RES	7
17	NC	NC	8
16	NC	VCC_IN	9
15	RX2	GND	10
14	TX2/BOOT	RF_IN	11
13	GND	GND	12

**SL869**

Main difference between SL868 and SL869 is Glonass System capability available at SL869.

SL869 is Pin2Pin compatible with J-N3 (SL868) family product. The only difference is BOOT pin location at SL869 module. If the customer does not need to reprogram module then this is not an issue at all.

**Conclusion:** customer that made design for SL868 GPS module can switch to SL869 a GPS/Glonass/Galileo module with no need for redesign.