

SC650 (S) GNSS Receiver CORS and Monitoring



SC650 (S) TECHNICAL FEATURES

RECEIVER		USER INTERFACE	
	GPS: L1C/A, L1P, L2C, L2P, L5	LEDs	GSM, Differential data, Satellites
	GLONASS: L1, L2, L3		· · · · · · · · · · · · · · · · · · ·
	BEIDOU: B1I, B2I, B3I, B1C, B2a, B2b	SYSTEM CONFIGURATION	
Satellite signals	GALILEO: E1, E5a, E5b, E6, ALTBOC	Operating System	Linux
tracked	QZSS: L1C/A, L2C, L5	Processor	A7 platform
	IRNSS: L5	Frocessor	A7 platform
	SBAS	. COMMUNICATION	
Channels	440+	COMMUNICATION	D : 11 06 10:
Position Rate	100 Hz	I/O Connectors	Power input: Lemo-0 female, 2 pin
Signal Reacquisition	< 1 s		DB9 9pin: RS232_RXD (Port receives the data)
Cold Start	< 45 s		RS232_RXD (Port receives the data)RS232_TXD (Port sends the data)
Hot Start	< 20 s		RS232_TAD (Fort serius tile data)RS232_RTS (Request send data)
Internal Memory	32 GB storage		RS232 CTS (Allow send data)
			RJ45
External Memory	TF card supported		M12 (RS232, RS485, CAN, EVENT, 1pps
Multipath and			LTE TNC
interference mitigation	Yes	_	UHF/LoRa (Optional)⁵ TNC
technology			GNSS external antenna TNC
		Bluetooth	BT 5.0 EDR, LE
POSITIONING ¹		- Wi-Fi	802.11b/g
HIGH PRECISION STAT	IC SURVEYING	- VVI-I-I	To upgrade the software, manage the
Horizontal	2.5 mm + 1 ppm RMS	- Web UI	status and settings, and download data,
Vertical	5 mm + 1 ppm RMS		use a smartphone, tablet, or other
RTK (< 30 Km) ²	••	-	internet-enabled electronic device
Fixed RTK Horizontal	6 mm + 1 ppm RMS		Raw data, RTCMV2.x/V3.2/V3.3, Rinex
Fixed RTK Vertical	10 mm + 1 ppm RMS	Reference outputs	v3.04/v2.11/etc.
SBAS Accuracy ³	< 60 cm RMS	Navigation outputs	NMEA 0183
•		- Navigation outputs	NIVIER 0103
INITEDNIAL MODENA		NETWORKING SERVIC	TC .
INTERNAL MODEM		NETWORKING SERVICES NTRIP Caster/Server/Client	
	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28 LTE TDD: B38/B39/B40/B41 UMTS: B1/B2/B4/B5/B6/B8/B19		
		Remote Management	By Stonex Software
Band		FTP server	For data download
		Email alerts	For low storage and other warning
			messages
	GSM: B2/B3/B5/B8	NTP server	Support
	Nano SIM card	Others	DDNS, VPN, SNMPD, Firewall
		DOWED CLIDDLY	
INTERNAL RADIO		POWER SUPPLY	10.00\(\partial\)
Туре	Tx - Rx 1 W	Voltage	10-28V DC wide voltage
Frequency Range	410 - 470 MHz	Power consumption	2.4~3.7W
	902.4 - 928 MHz		
Channel Spacing	12.5 KHz / 25 KHz	PHYSICAL SPECIFICATI	ON
Maximum Range ⁴	3-4 Km in urban environment	Dimensions	158 mm x 142 mm x 43 mm
	Up to 10 Km with optimal conditions	Weight	570 g
		Operating Temperature	-40°C to 80°C (-40°F to 176°F)
		Storage Temperature	-45°C to 85°C (-49°F to 185°F)
		Waterproof/Dustproof	IP68
			Designed to endure to a 1.5 m drop on
		Shock Resistance	concrete floor with no damage
		Llumidity	100% non condensing

Humidity

- Accuracy and reliability are generally subject to satellite geometry (DOPs), multipath, atmospheric conditions and obstructions, In static mode they are subject even to occupation times: the longer is the Baseline, the longer must be the occupation time.

 2. Network RTK precision depends on the network's performance and is referenced to the closest physical base station.

 3. It depends on the SBAS system's performance.

- 4. Varies with the operating environment and with electromagnetic pollution. 5. Optional, on request when ordering.

Illustrations, descriptions and technical specifications are not binding and may change





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	QZSS: L1C/A, L2C, L5	110003301	70 platform
	IRNSS: L5	COMMUNICATION	
	SBAS	COMMUNICATION	Device insert Lance Office Is Quie
PPP	B2b-PPP	Power input: Lemo-0 female, 2 pin	
Channels	1100+	- DB9 9pin:	RS232_RXD (Port receives the data)
Position Rate	20 Hz	- RS232_RXD (Port receives the data) RS232_TXD (Port sends the data)	
Signal Reacquisition	<1s	_	> RS232_RTS (Request send data)
Cold Start	< 60 s	I/O Connectors	
Hot Start	< 10 s		
Internal Memory	32 GB storage		
External Memory	TF card supported		LTE TNC UHF/LoRa (Optional) ⁵ TNC GNSS external antenna TNC
Multipath and			
interference mitigation	Yes		
technology		Bluetooth	BT 5.0 EDR, LE
		Wi-Fi	802.11b/g
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HIGH PRECISION STATIC	SURVEYING	Mah III	status and settings, and download data,
Horizontal	2.5 mm + 1 ppm RMS	Web UI	use a smartphone, tablet, or other
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RTK (< 30 Km) ²	3 mm · 1 ppm ((**)3	Deference outputs	Raw data, RTCMV2.x/V3.2/V3.3, Rinex
Fixed RTK Horizontal	8 mm + 1 ppm RMS	Reference outputs	v3.04/v2.11/etc.
Fixed RTK Vertical	15 mm + 1 ppm RMS	Navigation outputs	NMEA 0183
PPP Accuracy	< 20 cm RMS		
SBAS Accuracy ³	< 60 cm RMS	NETWORKING SERVICE	c
35A3 Accuracy	1 00 CH 11/13	NTRIP	Caster/Server/Client
INTERNAL MODEM		Remote Management	By Stonex Software
INTERNAL MODEM	LTE EDD:		
	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18	FTP server	For data download
	/B19/B20/B25/B26/B28	Email alerts	For low storage and other warning
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Dariu	UMTS: B1/B2/B4/B5/B6/B8/B19	Others	DDNS, VPN, SNMPD, Firewall
	GSM: B2/B3/B5/B8	Others	DDNS, VPN, SNMPD, FIREWall
	Nano SIM card	DOM/ED CLIDDLY	
	Trans on Tours	POWER SUPPLY	10.00/10.11
INTERNAL RADIO		Voltage	10-28V DC wide voltage
	Tx - Rx 1 W	Power consumption	3.7~4.8W
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Frequency Range	410 - 470 MHz 902.4 - 928 MHz	PHYSICAL SPECIFICATION	
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