SPG CONTROLS | INTELLIGENCE REDEFINED

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SPG

Cellular + WIFI Expansion card

The SPG Cellular expansion card allows for 3 options - one option has 2G/3G/4G operation, the other includes WiFi support for both end node and hotspot operation, and the last one supports dual-mode Cat M1/NB1 (NB-IoT) capability. The card also supports dual SIM for additional redundancy. A wide range of modulation is supported.

- Automatic fall-back from 4G to 3G to GPRS
- Optional WiFi hotspot or device mode
- 2G GPRS, 3G and 4G networks
- Auto card detection on S1000
- Dual SIM auto detecting best path
- Supports GPS location
- Supports LTE-CATM1 and NB-IoT network connectivity

SPG Controls Pty. Ltd.
Intelligence Redefined

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Technical Specifications

Cellular Expansion Card	
Product Code	**SE1-CELL-PCB**
Bands	2G (GSM/DSC) B8(900MHz) B3(1800MHz) 3G (WCDMA) B8(900MHz) B1(2100MHz) 4G (LTE) B20(800MHz) B8(900MHz) B3(1800Mhz) B7(2600MHz) B1(2100MHz)
Cellular and WIFI Expansion Card	
Product Code	**SE1-CELLWIFI-PCB**
Bands	2G (GSM/DSC) B8(900MHz) B3(1800MHz) 3G (WCDMA) B8(900MHz) B1(2100MHz) 4G (LTE) B20(800MHz) B8(900MHz) B3(1800Mhz) B7(2600MHz) B1(2100MHz)
WiFi	IEEE 802.11 b/g/n
GPS Expansion Card	
Product Code	**SE1-CELL-PCB-L**
Bands	2G (GSM/DSC) B2(1900MHz) B3(1800MHz) B5(850MHz) B8(900MHz) 4G (LTE) B1(2100MHz), B2(1900MHz) B3(1800MHz) B4(AWS1700MHz) B5(850MHz) B8(900MHz) B12(700MHz) B13(700MHz) B18(800MHz) B19(800MHz) B20(800MHz) B26(850MHz) B28(700MHz)
Data	Cat-M1m and NB-IoT
GNSS	GPS, GLONASS, Beidou, Galileo
All	
Protocols	ARCO TCP/IP using SSL security
Data rate	up to 72Mbps (802.11n)
Temperature	-10°C to 70°C
Humidity	5%(0°C) to 95%(40°C)
Power Consumption	Idle 25mA @ 12VDC / Peak 450mA @ 12VDC
Dimensions	80mm x 56mm
Weight	50g

RoHS FC CE WiFi CERTIFIED GCF Global Certification Forum

ALARM TRANSMISSION EN 50136 EN 50130 I&HAS EN 50131

Ordering Information

Part Number	Product Code	Desription
200102	SE1-CELL-PCB	2G/3G/4G Cellular backup card with antenna
200103	SE1-CELLWIFI-PCB	2G/3G/4G Cellular backup card with WiFi support and dual antennas
200152	SE1-CELL-PCB-L	2G/4G Cellular backup card with GNSS support and antenna
300250	SE1-CELLGPS-KIT	Antenna Kit to allow SE1-CELL-PCB-L to connect to the GPS network.

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