

# 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



2G GPRS, 3G and 4G  
networks



Dual SIM auto detecting  
best path



Supports LTE-CATM1 and  
NB-IoT network connectivity



Optional WiFi hotspot  
or device mode



Auto card detection  
on S1000



Supports GPS location



Anti-Jamming Detect

## Technical Specifications

### Model SE1-CELL-PCB and Model SE1-CELLWIFI-PCB:

Bands	2G B8(900MHz) B3(1800MHz) 3G B8(900MHz) B1(2100MHz) 4G B20(800MHz) B8(900MHz) B3(1800MHz) B7(2600MHz) B1(2100MHz)
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### Model SE1-CELL-PCB-L:

Bands	2G B8(900MHz) B3(1800MHz) 3G B8(900MHz) B1(2100MHz) 4G B20(800MHz) B8(900MHz) B3(1800MHz) B7(2600MHz) B1(2100MHz)
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Wifi	IEEE 802.11 b/g/n
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### Model SE1-CELL-PCB-L

Bands	2G B5(850MHz) B8(900MHz) B3(1800MHz) B2(1900MHz) 4G B12/13(700MHz) B19/20(800MHz) B5(850MHz) B8(900MHz) B3(1800MHz)- B1(2100MHz)
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Data	Cat-M1 and NB-IoT
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GNSS	GPS, GLONASS, Beidou, Galileo
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### All Models

Protocols	ARCO TCP/IP using SSL security
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Data rate	up to 72Mbps ( 802.11n )
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Temperature	-10°C to 70°C
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Humidity	5%(0°C) to 95%(40°C)
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Power Consumption	Idle 25mA @ 12VDC / Peak 450mA @ 12VDC
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Dimensions	80mm x 56mm
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Weight	50g
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## Ordering Information

Part Number	Product Code	Description
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