



# Insego Wavemaker™ 5G industrial gateway S2000e

## Versatile, scalable, secure, and high-performance 5G

### Why Insego?

As a U.S.-based company, we design and develop all of our products in the USA and hold them to the highest security standards. Our products and solutions are designed to meet the most rigorous security requirements of top tier carriers, government entities, and fortune 500 enterprise customers.



### Ultra-reliable global connectivity

The S2000e supports public or private networks and operates on numerous service provider networks around the world. It connects to routing systems or remote endpoints with Ethernet or USB. Also the S2000e supports 4x4 LTE + 5G or 4x4 5G + LTE as well as 4x4 LTE or 4x4 5G so you can maintain a dependable connection compared to other devices. With six cellular ports, each port is tuned to optimize efficiency and return loss to provide the best possible RF.

### 24/7 Continuous multi-gigabit connection

Get connected and stay connected. Advanced thermal, WAN and dual SIM management with active keep-alive, ensures your business is always connected.

### Millisecond latency

Ultra-low latency, unlocked by 5G commercial or private networking, for real time data access and management.

### Industrial-grade hardware

Proprietary thermal design allows for use in a server room, harsh factory environment or even outdoor enclosures while operating at multi-gigabit speeds. Mounting options vary from desktop to wall, rack, pole or DIN rail install.

### Remote management

Convenient remote device management capabilities for a single device, plus in-depth remote device management capabilities and diagnostics for multiple devices from a single dashboard with Insego Connect™. <sup>1</sup>



# S2000e product specifications

## Connectivity<sup>2</sup>

- Sub-6 GHz only or sub-6 GHz + mmW
- 200 MHz sub-6 GHz max bandwidth
- 5G NR standalone (SA) sub-6 GHz and non-standalone (NSA)
- Dynamic spectrum sharing (DSS)
- 4G LTE Cat 22 fallback

## Ports

- 1x 5 Gb Ethernet RJ45 with Power over Ethernet, 4.9 Gbps max throughput<sup>2</sup>
- 1 x USB 3.1 type C (USB tethering, USB to Ethernet RJ45 adapter), 2.7 Gbps max throughput<sup>2</sup>
- 6 x Female SMA for cellular
- 1 x Female SMA for GNSS
- 1 x 4 Pin power and I/O (2 x digital input output pins)

## Power options

- 4 Pin AC power supply
- 4 Pin DC power and I/O supply
- PoE injector
- USB power delivery (15W Min), requires 15W from USB PD host

## Positioning

- L1/L5 active GPS band support
- Active antenna support
- Assisted cellular GPS support

## Dimensions & weight

- 7.87 x 3.14 x 1.77" (200 x 80 x 45 mm)
- 1.09 lbs (496 g)

## Environmental

- Operation: -22 to 149°F (-30 to 65 °C)
- Storage: -40 to 185°F (-40 to 85 °C)
- IP41 rated

## SIM

- 2x user accessible 4FF nano SIM
- Multi-carrier support with auto-switching

## Chipset

- Qualcomm® Snapdragon™ X55

## Systems supported

- Windows® 8, 10
- Mac OS® X 10.10 or higher
- Linux® Ubuntu 14.04 or higher
- Chrome OS v79 or higher

## Networking

- WAN with active keep-alive
- Dual SIM with auto-APN and automatic switching
- Ethernet IP Passthrough (IPPT)
- Port forwarding
- Port filtering
- MAC filtering
- DHCP
- DMZ
- Configurable DNS
- MAC address filtering
- Public and private APN support
- Commercial and private LTE 5G support

## Security

- NAT firewall
- VPN pass-through, OpenVPN
- Security hardened web interface
- Fully encrypted log files
- Fully encrypted cloud agent
- Anti-CSRF
- Session timeout and incorrect password lockout
- Admin portal to block factory reset

## Accessories

- AC adapter - in box
- DC and I/O cable- in box
- POE injector - sold separately
- Mounting brackets- sold separately
- Dipole and multi-element antennas - sold separately

**Qualcomm**  
snapdragon   
X55 5G modem-RF system

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<sup>1</sup> Advanced features available via subscription.

<sup>2</sup>Theoretical values, speeds achieved by connected devices vary based on network coverage, Wi-Fi connection and device capability.

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