

Technical SIMBA Specifications

- Peli case rated to IP67, housings rated to IP66.
- Components rated to -40°C/-40°F (SIMBA has worked below this temperature rating).
- Data stored on SD card (16GB card provides ample capacity for all deployments).
- Data sent back via iridium modem.
- Battery life >1 year. Longest deployment 23 months.
- GPS for location and sea ice drift. Accuracy = 2m.
- Barometer for case temperature and air pressure.
- Magnetometer/accelerometer for ice flow rotation and tilt.
- User configurable – custom sampling rates.
- Remote reconfiguration possible after deployment.

Web Interface

- Displays GPS/chain temperatures/heat maps/unit status.
- Data archive for life.
- Decoded raw data available to download in CSV format.
- Provides rapid access and detailed information for customer support.

Technical Chain Specifications (Basic)

- Standard: 4.8m chain. 240 sensors at 2cm spacing.
 - 10cm (5 sensors per board)
 - 50cm (1 sensor per board)
 - Other spacing at additional cost
- Wide: 2cm spacing only, up to 5.5m length Length: dependant on sensor spacing, maximum sensor limit of 264.
- Hybrid design possible upon request.
- All chains come with chain weight and air temperature sensor as standard Sensor accuracy +/- 0.0625°C.
- Heating and cooling cycling enables accurate profiling of thermal properties of snow/ice.
- User configurable.

