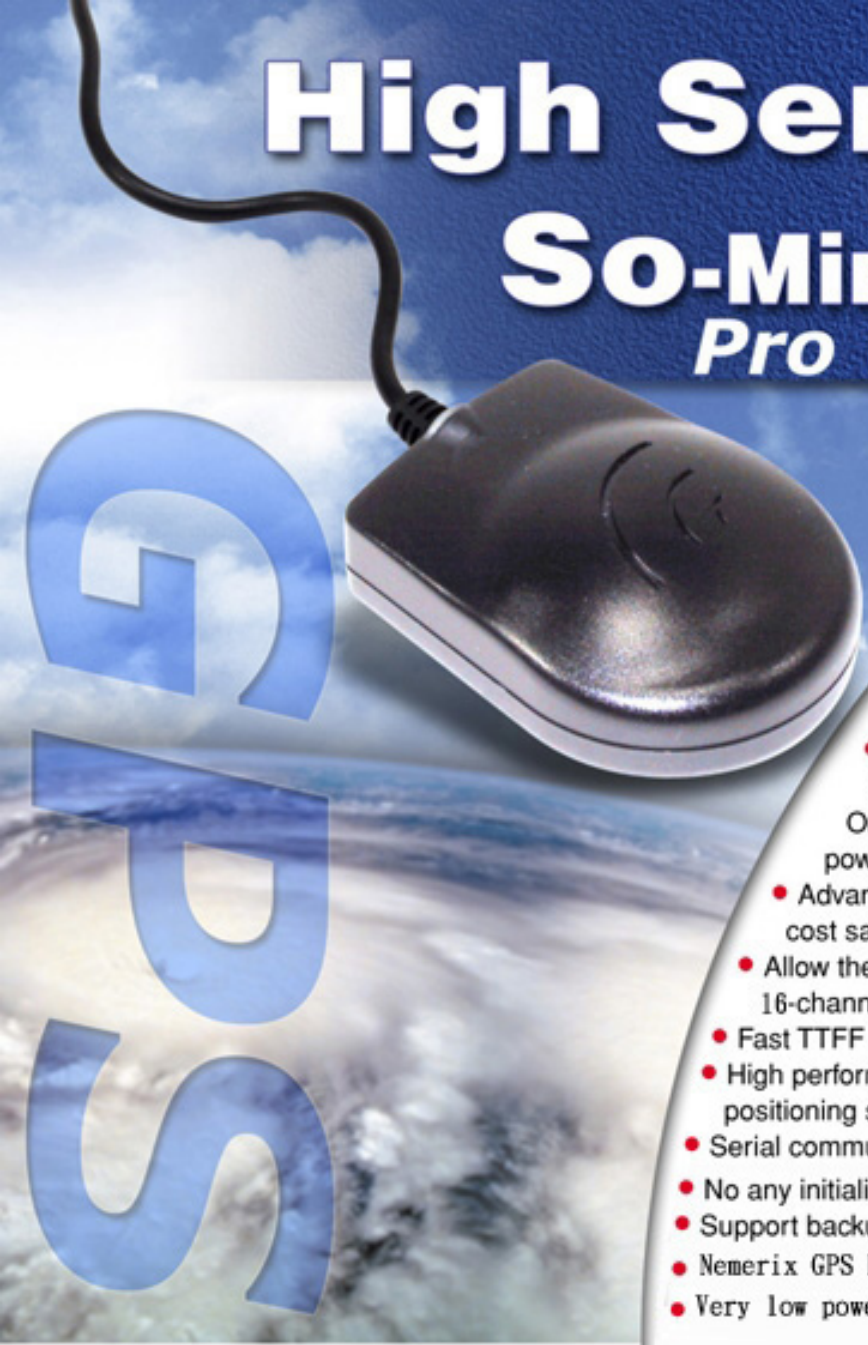
High Sensitivity So-Mini Pro 2 GPS



- Full navigation accuracy provided by Standard Positioning Service (SPS).
- Support high sensitivity for very weak signal acquisition and tracking.
- Integrated powerful CPU, base band and RF front-end hardware in a SOC (System On Chip) design reduces the space and power consumption in state of the art.
- Advanced IC technology gets the total receiver cost saving.
- Allow the receiver to track the satellites using up to 16-channel correlators.
- Fast TTFF for cold start, warm start and hot start.
- High performance firmware drives an excellent positioning speed.
- Serial communication channel with 4800 baud rate
- No any initialization setup is required while start to use.
- Support backup power to sustain internal clock.
- Nemerix GPS Module, 16 channels all in view tracking
- Very low power consumption (typical: 45mA)

Accuracy:	Position:	5m w/o S/A
	Velocity:	0.1 m/sec w/o S/A
	Time:	±1 μ sec
Acquisition :	Cold start:	50 sec (Average)
	Warm start:	38 sec (Average)
	Hot start:	10 sec (min.)
Sensitivity :	Acquisition:	-157 dBm
	Tracking:	-165 dBm
Dynamics :	Altitude:	max. 18,000m
	Velocity:	max. 515 m/sec
	Acceleration.	max. ±4g
Navigation update rate :	Once per second	
Dimension :	40(W) x 40(L) x 14(H) mm	
	Built-in Patch Antenna	

Serial I/O : Series TTL and RS-232 I/O 4.8K
NMEA 0183: GGA, GSV, GSA, RMC, (optional) VTG, GLL

Coordinate Datum : WGS 84

Power supply : +5.0VDC and up to 9.0V DC

Power consumption : Typical 45mA

Sleep mode power saving : Yes (automatically)

RTC support : Yes

Backup Battery : Backup power (Lithium rechargeable battery) for RTC and SRAM

System Performance : Tracks up to 16 satellites

I/O connector : 6-pin

Operating Temp. : -40° ~ +85°C

Storage Temp. : -55° ~ +100°C

Humidity : 5%~95%