GM 720 (USB Type)

SiRF Star III chipset

Technical Specification

Performance

- Receiver:	20 parallel channels
- Frequency:	L1, 1575.42 MHz C/A code
- Acquisition Time (Open Sky and Stationary)	
::. Re-acquisition:	Average 0.1 seconds
::. Hot Start:	Average < 1 seconds (typical TTFF 95%)
::. Warm Start:	Average < 38 seconds (typical TTFF 95%)
::. Cold Start:	Average < 42 seconds (Typical TTFF 95%)
- Accuracy:	
::. Position:	2DM RMS: approx. 10m
::. Velocity:	Max. 515 m/ sec
::. Time:	1 microsecond synchronized to GPS time
::. Datum:	WGS-84 (or by demand)
- Sensitivity:	
::. Acquisition:	-143 dBm (average)
Tracking:	-159 dBm (average)
- Dynamics:	
::. Altitude:	Max. 18000 meter
::. Velocity:	Max. 515 m/sec
::. Acceleration:	± 4g

Power & Interface characteristics

Power supply:	From USB port +4.5~5.5V	Connector:	USB 1.1 male connector
Baud rate:	9600 bps Software adjustable through NMEA commands.	Antenna:	Built-in patch antenna
I/O Protocol:	NMEA 0183		

Physical characteristics

Dimensions : 55(L) X 37(W) X 16.5(H) mm
Cable length : 2 meters

Environment conditions

Operating temperature : -10°C ~ +70°C
Storage temperature: -20°C ~ +75°C
Operating humidity: 5% ~ 95% RH, non condensing

Feature highlights

::. 20–channel GPS receiver for fast acquisition and reacquisition

::. Full navigation accuracy provided by Standard Positioning Service (SPS)

::. Support standard NMEA 0183 protocol (Version. 2.3 GGA, GSA, GSV, RMC, VTG

::. Internal RTC (Real Time Clock)

::. SBAS (WAAS, EGNOS Euro Geostationary Navigation Overlay Service) support

::. User selectable baud rates allow the design with maximum interface capability and flexibility

::. Water resistant –IPX1

::. ROHS compliant

Availability

::. For OEM/ ODM or Navibe Brand Reseller

::. Delivery FOB HongKong

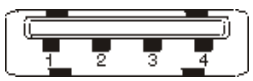
::. 2 years warranty

Hardware Interface

The GM 720 includes the USB 1.1 male connector baud rate 9600 bps which allows you to link with your notebook PR, car phone or other devices.

Pin Assignment

Pin	Signal
Pin 1:	+5 VDC
Pin 2:	-Data
Pin 3:	+Data
Pin 4:	Ground



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