



# GS9612

## GPS Module

**AMPAK** Technology Co., Ltd. Introduce a low-cost and low-power GPS module GN9612. The module is a L1 GPS solution for cellular handset applications. The solution offers good Time-To-First-Fix (TTFF) and accuracy. The GN9612 is hosted architecture shifts the non-real-time-critical navigation software to the host system's microprocessor, minimizing system cost and PCB size. Host software drivers are available for the applications of portable devices.

- Compact size
- UART interface
- Antenna attached
- Low power

### Main Features

- Hosted architecture optimized for cost & performance.
- Support GPS L1 band C/A code, and 42 channels.
- High sensitivity: -158dBm (tracking).
- Fast TTFF: typ. 2s (hot start) and typ. 42s (cold start)
- Low power consumption: typ. 45mA (acquisition) and typ.35mA (tracking).





## General Specifications

<b>Product Name</b>	GN9612 GPS Module
<b>Dimensions (mm)</b>	29mm x 13.5mm x 6.6mm
<b>Host Interface</b>	UART/SPI
<b>Frequency Band</b>	L1 1575.42 MHz
<b>Channels</b>	Up to 20
<b>Operating Voltage</b>	3.1V~3.6V
<b>Tracking Sensitivity</b>	<-140dBm(acquisition) <-158dBm(tracking)
<b>TTF(Cold start- Autonomous)</b>	<42s
<b>TTF(Hold start- Autonomous)</b>	<2s
<b>Power Consumption</b>	Internal Antenna <50mA External Antenna <70mA
<b>Operating Temperature</b>	20 °C to 70 °C