

PiloT for Raspberry Pi

# Add a wireless WAN connection to the Raspberry Pi

The PiloT is a WAN communications board which provides an HSPA wireless interface for the Raspberry Pi 2. Conforming to the HAT specification, the PiloT also provides location information using an on-board GNSS solution.

**Highly versatile design**

The PiloT is able to communicate with the Raspberry Pi using serial or USB communications, with separate channels for control, data and location data. It can be powered by the Raspberry Pi, or a separate power supply can be used.

When used in CDC-ECM mode over USB, the PiloT presents as an Ethernet-like WAN device, simplifying control of data sessions. In this mode, PPP is not required; a simple command initiates the session.

**Fast and accurate time and location tracking**

The GNSS engine is based on SiRF V technology. GNSS data can be transferred over serial or USB interfaces, providing accurate location information for your application. It can also be used to provide accurate time.

**Compatible with IoT Acceleration Platform**

The PiloT can also be used to transfer MQTT data from a Raspberry Pi to the Sierra Wireless AirVantage® service, offering a rapidly deployable device-to-cloud architecture.

The PiloT uses a number of I/Os; the remainder are passed through on the 40-pin headers for use by other applications.



**Technical specification**

<b>EMBEDDED WIRELESS MODULE</b>	Sierra Wireless HL8548-G
<b>FREQUENCY BANDS</b>	<b>HSPA</b> — B1 (2100MHz) / B2 (1900MHz) / B5 (850MHz) / B6 (850MHz) / B8 (900MHz) / B19 (800MHz) <b>EDGE/GPRS</b> — 850/900/1800/1900MHz
<b>3G PROTOCOLS</b>	WCDMA (UMTS), HSDPA, HSUPA, HSPA+
<b>GNSS SUPPORT</b>	SiRF V GPS + GLONASS
<b>INTERFACES</b>	Serial, USB (CDC-ACM, CDC-ECM)
<b>SIM</b>	3V Micro-SIM
<b>POWER</b>	From Raspberry Pi or direct (can also power Raspberry Pi)
<b>AT COMMAND INTERFACE</b>	3GPP 27.007 standard, plus proprietary extended commands
<b>IP STACK</b>	On-board or Raspberry Pi