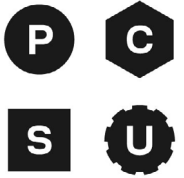


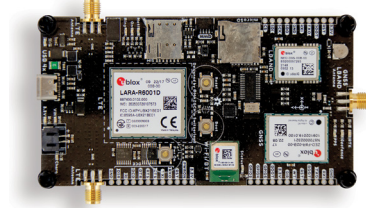
# XPLR-HPG-2



## High precision GNSS explorer kit

### Compact platform for u-blox high precision GNSS solutions

- Prototyping kit for cm-level accuracy positioning applications
- High precision GNSS, LTE, Wi-Fi, Bluetooth, and antennas
- PointPerfect GNSS augmentation service
- Dual-core MCU for applications
- ubxlib software components and application in source code



### Product description

The XPLR-HPG-2 explorer kit provides a complete platform for evaluation and prototyping of u-blox's high precision GNSS solution with the PointPerfect GNSS augmentation service. With its GNSS and communications modules it can access correction data from a satellite broadcast using an L-band satellite GNSS receiver or via IP connectivity using Wi-Fi or LTE. The correction data is provided by PointPerfect, the u-blox GNSS augmentation service, and delivered via Thingstream IoT service delivery platform.

The board includes the NINA-W10 wireless MCU module with Wi-Fi and Bluetooth connectivity, which runs the high precision GNSS application and controls the communications between the u-blox wireless modules.

The application makes use of ubxlib, a set of software modules connecting the various u-blox modules with concise C APIs.

The hardware design and software source code are available on GitHub so that customers can modify code as needed, add functionality, and start developing their own product.

### Kit includes

- One compact board with all components
- Application software example in source code
- Trial PointPerfect and AssistNow location services

### Integrated positioning and communication on one board

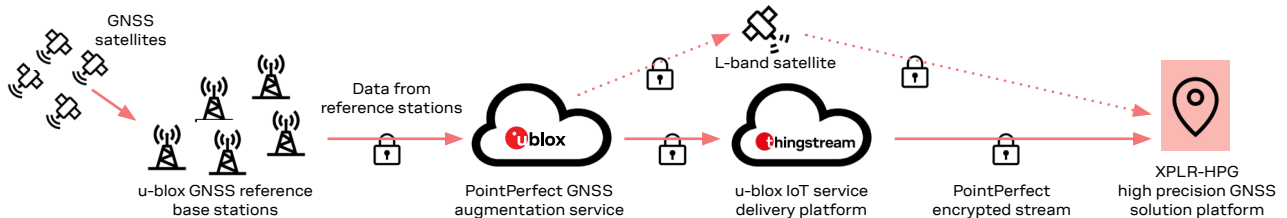
<b>NINA-W106</b>	Dual-core MCU for applications and Wi-Fi 4 / Bluetooth v4.2 connectivity
<b>ZED-F9R-03B</b>	High precision GNSS receiver module with dead reckoning
<b>NEO-D9S</b>	L-band GNSS correction receiver module
<b>LARA-R6001D</b>	LTE Cat 1 module to receive PointPerfect correction data via mobile network
<b>PointPerfect</b>	PointPerfect based on SPARTN messaging Correction service format and MQTT delivery protocol

### Electrical data and interfaces

Power supply	USB and onboard battery (not included)
Application MCU	Dual LX6 with 8 MB flash and 520 kB RAM
Data storage	SD card slot for max 32 GB
Antennas	Bluetooth and Wi-Fi (on NINA-W106), 2 LTE, GNSS and L-band

### Product variants

XPLR-HPG-2	High precision GNSS explorer kit with Wi-Fi, Bluetooth, cellular, and GNSS technologies. PointPerfect, AssistNow services.
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