

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.

Integrated positioning and communication on one board

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

Electrical data and interfaces

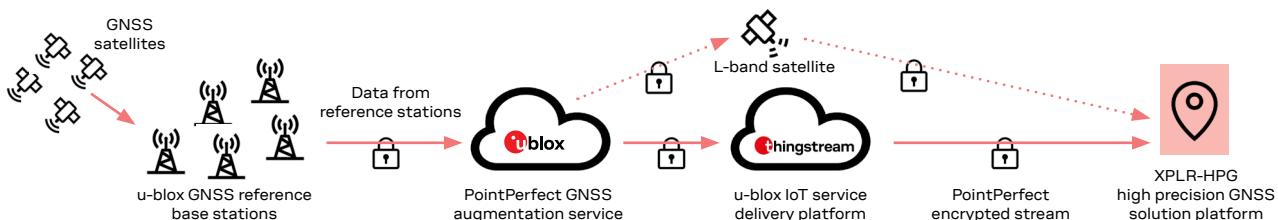
Power supply	USB and onboard battery (not included)
Application MCU	Dual LX6 with 8 MB flash and 520 kB RAM
Data storage	SD card slot for max 32 GB
Antennas	Bluetooth and Wi-Fi (on NINA-W106), 2 LTE, GNSS and L-band

Kit includes

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

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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