



ALTUS

POSITIONING
SYSTEMS

APS-U



The Altus APS-U is a rugged, modular GNSS receiver for use in demanding conditions. It is a fully upgradable, and may be configured in a variety of ways to suit many popular applications.

Heading, Machine Control, and Base Stations

APS-U HDG For GNSS Heading & Position

The APS-U Heading Receiver is configured to provide GNSS Heading and RTK Position within a rugged aluminum housing to serve a variety of applications that require accurate heading and position.

The receiver features a modular design, with dual GNSS antenna systems for precise Heading and position within seconds after startup. For RTK, the APS-U has an integrated UHF transceiver and a GSM cellular modem.

In addition to RTK, the APS-U also features L-Band corrections from TERRASTAR for 10 cm position accuracy without the use of local base stations or RTK networks.

GNSS Heading may be used on a variety of installations including construction machines, mapping vehicles, hydrographic survey vessels, and dredging vessels.



Features and Benefits of the APS-U Heading Receiver

- Rugged design for rough conditions
- High-precision, dual-frequency GNSS Heading & RTK Position
- Open interface for easy data integration
- Serial, USB, Bluetooth and Ethernet ports for ready connections
- Integrated UHF radio
- Integrated GSM/GPRS cellular modem
- 1PPS, Event Markers & Clock interfaces



APS-U R For Machine Control

The APS-U for Machine Control is configured to provide GNSS RTK Position and data interfaces within a rugged aluminum housing to serve a variety of applications that require accurate position and synchronization with other sensors.

The receiver features a modular design, with leading GNSS technology for precise RTK position together with 1PPS and Event marker interfaces to directly correlate all measurements on GPS time within seconds after startup. For RTK, the APS-U has an integrated UHF transceiver and a GSM cellular modem.

In addition to RTK, the APS-U also features L-Band corrections from TERRASTAR for 10 cm position accuracy without the use of local base stations or RTK networks.

The rugged APS-U for Machine Control may be used on a variety of machine installations including construction machines, mapping vehicles, and vehicle platforms that utilize accurate position to improve their efficiency.



Features and Benefits of the APS-U For Machine Control

- Rugged design for rough conditions
- High-precision, dual-frequency GNSS RTK Position
- Open interface for easy data integration
- Serial, USB, Bluetooth and Ethernet ports for ready connections
- Integrated UHF radio
- Integrated GSM/GPRS cellular modem
- 1PPS, Event Markers & Clock interfaces



APS-U B For Base Station

The APS-U for a Base Station configuration uses a single antenna for reliable GNSS data within a rugged aluminum housing that is easily accessible via Ethernet, serial or USB.

The installation may be permanent or temporary, and the APS-U provides easy ports for rooftop antenna mounts for both GNSS and radio antennae. For data access, the GNSS is accessible via Ethernet for remote status or configuration.

The base station may be setup in the field with the antenna located over a known point, or in semi-permanent or permanent installations to deliver reliable GNSS correction data. The GNSS settings are stored and recovered automatically after re-boot or power cycle.

The receiver features a modular design, with leading GNSS technology for precise data within seconds after startup. In addition to Ethernet connectivity, the APS-U has an integrated UHF transceiver for broadcast via UHF, or ready serial ports for broadcast via a more powerful external radio.

The rugged APS-U base station may be used on a variety of installations.



Features and Benefits of the APS-U Base Station

- Rugged housing design for rough conditions
- High-precision, dual-frequency GNSS
- Open interface for easy data integration
- Ethernet, Serial, USB, and Bluetooth for ready connections
- Integrated UHF radio with serial port for external radio
- Programmable GNSS settings
- Auto recovery on power cycle

