MGBTECH
POSITION MEASURING TECHNOLOGY

AKKI2

Machine control GNSS receiver

- ✓ **WIFI & ETHERNET**
  - CAN streaming
  - GNSS streaming
  - Webfront config
- ✓ **CAN converter**
  - Galvanically isolated
  - Stabilized 24V power
- ✓ **GNSS board**
  - Multi constillation RTK
  - Supports Septentrio/Novatel
  - Dual-antenna heading
  - Integrated GPRS NTRIP
- ✓ **Integrated UHF radio**
  - 403-473 MHz
- ✓ **Robust design**
  - IP 65 protection
  - Small size
  - 2mm thick housing
  - 10-30 VDC power

AKKI2 is GNSS receiver specifically designed for machine control applications. It is the first receiver to bring all the functionality you need for a machine control application in one small device. Stream all your sensor and GNSS data over a single WIFI or ethernet connection to your controller.

MGB-Tech has been designing high end GNSS receivers for over a decade. The AKKI2 is our first GNSS receiver specifically designed for Machine Control applications. The most groundbreaking feature is its built-in WIFI access point. Connect to the access point and start streaming GNSS data to your controller. The AKKI2 also has a CAN bus so you can stream your sensor data via the same wireless connection. Configuring the device is easy thanks to the web based interface. Just open a browser and start configuring the unit. No software needs to be installed to get you up and running. If you prefer a wired connection, there is a 10/100M ethernet connection available that provides you the same data streaming and configuration options.

This dual antenna receiver has a build in GPRS modem that can connect straight to an NTRIP server for differential corrections. The NTRIP client can be configured on the web front of the device. Besides using the NTRIP client you can also receive your corrections via the optional integrated UHF radio. You can of course always connect an external UHF radio to one of the two COM ports that are available on the system.

The receiver can be powered from 10 to 30 VDC. To avoid ground loops, the power supply is galvanically isolated. Because the CAN bus is an important part of your system, we also provide a stable 24V to the bus that is again galvanically isolated from the rest of the interfaces.

Another advantage of the device is its small size. It is only 170mm long and 140mm wide so it will fit where you need it to. The housing is 2mm thick extruded aluminum that is built to survive the toughest environments.

GPRS modem
- **Frequency bands 850, 900, 1800, 1900**

Ethernet interface
- **4 pin 10/100Mb**

Wifi interface
- **802.11 b/g/n**
- **2.412 -2.472 Ghz**

CAN interface
- **Fully galvanic isolation**
- **Isolated 24V 20W power supply**

UHF SATEL modem
- **Frequency range 403 - 473 MHz**

Mechanical
- **171mm x 140.60mm x 36.60mm**
- **Extruded aluminum housing**
- **IP 65 ingress protection**
- **Weight : TBD**

Back connections
- **1 x M12 A-code 3P (Power)**
- **1 x M12 A-code 8P female (COM1&2 + PPS)**
- **1 x M12 D-code 4P female (Ethernet)**
- **1 x M12 A-code 4P male (CAN)**
- **1 x TNC (GNSS main)**
- **1 x TNC (GNSS aux)**
- **1 x TNC (GPRS)**
- **1 x TNC (WIFI 802.11b)**
- **1 x metal rotary SIM card cover**

Power characteristics
- **Wide input : 10-30VDC**

Environmental
- **Operational temperature -20°C +50°C**

Order Codes
- **AKKI2-S : SEPTENTRIO AsteRx-m2a & UHF**
- **AKKI2-S : SEPTENTRIO AsteRx-m2a**
- **AKKI2-NTU : NOVATEL OEM7720 & UHF**
- **AKKI2-NT : NOVATEL OEM7720**