



UHF Mini Ground Dongle



Description

GAUSS UHF Mini Ground Dongle is a USB low power board to **simulate your ground station** safely on laboratory conditions and **expedite AIT procedures**.

The USB dongle integrates both a low power UHF transceiver and a TNC, thus miniaturizing common ground station rack systems.

It was designed to have an easy access to TT&C testing during final verifications and pre-integration periods but it can also be used on your ground station if an external power amplifier is added.

It is fully compatible with the *GAUSS UHF Radios*.

The dongle comes with multi-platform software, therefore it can be used with any PC/Mac available at your lab.

A special bundle includes both the Radio and the Mini Ground Dongle, for a quick system deployment.

Primary Features

- Up to 15dBm of output power;
- UHF frequency band for TT&C;
- USB interface with software and drivers for Windows, Linux and MAC;
- AX.25 protocol supported;
- FEC Viterbi k4 supported;
- Integrated TNC, radio can be interfaced using KISS;
- Transparent mode supported (radio behaves like the analog fronted and the user implements its own protocols;
- Data-rate: 300bps to 100kbps;
- Sensitivity: -122dBm @1.2kbps, -119dBm @9.6kbps, -109dBm @50kbps;
- GPIO for external output amplifier exciter;
- Firmware can be upgraded from PC;
- FSK/MSK/GFSK/GMSK modulations;
- Off the shelf industrial grade / automotive components;
- Full compatibility with all GAUSS Radios;
- SMA connector for antenna;
- FEC Viterbi k7 & Reed-Solomon*;
- Speeds up to 250kbps (with 4GFSK)*.

**Features that can be implemented on user request.*

