

GBAS VHF Transmission Emulator



Pre-Installation GBAS Test & Evaluation Solution..!!

Overview:

Prior to permanent GBAS infrastructure installation, many engineering issues associated with proper site selection and signal propagation characteristics need to be thoroughly investigated. Deficiencies in pre-installation testing can lead to expensive project overruns and costly delays. The GVT Emulator is designed as a low cost test solution to assist in GBAS pre-installation engineering risk mitigation studies. Employing a precision NovAtel OEMV Receiver loaded with specialized internal API firmware, it directly controls a Telerad EM-9009A D8PSK VHF Transmitter (80 watts) and generates in real time either RTCA DO-246C GBAS Type 1,2 and 4 messages for any defined D8PSK slot.

Given its simplicity, (uncertified, limited integrity, no redundancy), the GVT Emulator delivers aviation users an efficient and easily deployable GBAS support tool for generating engineering GBAS VHF test transmissions, in advance of future deployed final DO-178B certified vendor equipment. In addition, the GVT Emulator may be used for supporting customer and industry demonstrations, system performance analysis, VHF propagation investigations and verifying aircraft avionics correct operation.

For further details on the GVT Emulator customization options, please contact GPSat Systems engineering team.

Operational Features:

- Fully RTCA DO-246 (1,2 &4) compliant , 8 slots selectable.
- Rapidly deployable to any location with self survey options.
- Recordable GPS observation data for location post process analysis.
- Cost effective high quality commercial components..
- Incorporates NovAtel OEMV3 precision GNSS technology.
- Direct interface to Telerad EM9009 D8PSK Transmitter.
- Win XP Real Time out put performance/ parameter displays.
- WinXP Secure application for operator pre-mission configure.
- Flexible architecture supporting specific customizations as required.

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Chan	ReqSlotID	ID	PRC	PRC	SignPRJ	B1	B2	B3	B4
1	5	2	5.44	014	340	N/A	N/A	N/A	N/A
2	9	2	22.22	006	340	N/A	N/A	N/A	N/A
3	12	2	13.68	016	340	N/A	N/A	N/A	N/A
4	17	2	-7.44	018	340	N/A	N/A	N/A	N/A
5	23	2	-15.54	020	340	N/A	N/A	N/A	N/A
6	24	2	-6.72	016	340	N/A	N/A	N/A	N/A
7	3	2	-7.40	014	340	N/A	N/A	N/A	N/A
8	.	.	.	.	.	.	.	.	.
9	.	.	.	.	.	.	.	.	.
10	.	.	.	.	.	.	.	.	.
11	.	.	.	.	.	.	.	.	.
12	.	.	.	.	.	.	.	.	.

