

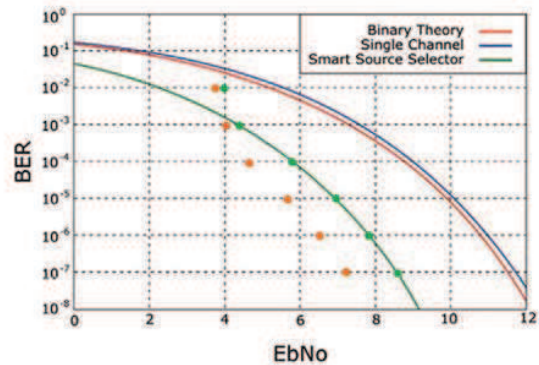
Ground Stations

Curtiss-Wright provides sophisticated ground station boards and systems based on cutting edge bit synchronizer, Smart Source Selector (SSS) and demodulator technology. The resulting systems significantly improve signal reception, reduce the number of dropped frames and increase data throughput. Combined with our SSS technology, a dual-channel ground station system using diverse receivers can achieve a possible BER of 3 dB better than theory for a single receiver. Three or more channel SSS are ideal for adding coverage to blind spots found, for example, around buildings or on runways. These can also be used to further enhance the reception when combined with other channels. This innovative SSS technology also supports the use of encrypted data.

The telemetry ground stations offer an end-to-end solution from receiver to processed data with tightly integrated hardware and software that has a host of features that allow displays, data and analysis techniques to be built, tested and saved with little effort at any time before or during the mission.

| System | |
|--------------------|--|
| GTS/SYS/005 | GTS-500 telemetry ground station system with receivers, dual channel Smart Source Selector, PCM decom, GPS/IRIG time reference, GS Studio 3 and GS Works 7 |
| GTS-500 PCI Boards | |
| GTS/BSC/003 | 20 Mbps bit synchronizer |
| GTS/BSC/004 | Dual channel 20 Mbps Smart Source Selector |
| GTS/BSC/005 | Dual channel 20 Mbps bit synchronizer |
| GTS/BSC/006 | Tri channel 20 Mbps bit synchronizer |
| GTS/DEC/003 | 20 Mbps bit synchronizer and PCM decom |
| GTS/DEC/004 | Dual channel 20 Mbps Smart Source Selector and PCM decom |
| GTS/DEC/005 | Dual channel 20 Mbps bit synchronizer and PCM decom |
| GTS/DEC/006 | Tri channel 20 Mbps bit synchronizer and PCM decom |
| GTS/FSC/003 | 20 Mbps PCM decom |
| GTS/FSC/005 | Dual channel 20 Mbps PCM decom |
| Other Boards | |
| GTS/RCV/001/PBE | 14 Mbps S-band receiver with 12 IF filters |
| GTS/RCV/001/PBL | 14 Mbps L-band receiver with 12 IF filters |
| Accessories | |
| GTS/BAY/001 | Desktop PC 5.25 inch DRE/SSD/001 harness |
| SAM/DEC/008 | USB Type II IRIG-106 compatible PCM decom |

A dual-channel SSS can yield a BER of 3 dB better than theory for a single receiver



2 channel Smart Source Selector 4 Mbps NRZL (measured) ●
3 channel Smart Source Selector 4 Mbps NRZL (measured) ●

