

XR-2000 Series Miniature Digital Receiving System

This high performance, small size, low power receiver utilizes a tuned preselector front-end, providing high performance in densely packed urban signal environments.



Overview

Northrop Grumman System Corporation's advanced, wide-band, state-of-the-art software based receiving system is ideal for a wide variety of mission applications—especially where size, weight, and power consumption are critical. Incoming signals are block converted to an IF for digitization and processing in a fixed point Digital Signal Processor. The built-in spectral analysis software provides rapid scanning with a wide variety of resolution bandwidths.

On-board CF (Compact flash) memory may be used to store custom DSP algorithms and/or signal related data. Signal related data may be in any form including demodulated signals, as well as pre-demodulation frequency domain samples. Time domain processing may also be performed. Additional processing may also be allocated to an on-board TI digital receiver chip allowing frequency selection and resolution bandwidth down to 6.25 kHz. The system includes an internal TCXO, or an externally supplied frequency reference may be used. A 100 Base-T Interface is included for post-mission data retrieval, programming, and real time operation. System energy consumption is micro-managed allowing maximum mission life for any given set of configuration parameters.

XR-2000 Features

The XR-2000 is available as a single integrated package. The integrated package is sized to allow stacking of up to 15 units in a single 5.25 x 19 inch rack assembly. Primary power to the receiver is 12 volts nominal. The fully integrated receiver is complemented with a AC/DC power supply and automotive power adapter.

- 30 to 3200 MHz Frequency Range
- Multi-band Varactor-Tuned Preselector
- Fast Scan Rate
- 70 MHz IF Output
- DSP Processor Back-End
- Software Defined Scan, BW and Demod
- Easy to Use Graphical User Interface
- Very Low Power Consumption
- Very Small Size
- Removable Memory Card (Compact Flash)
- NMEA GPS Interface
- 100 Base-T Ethernet Output
- External IF Interface
- External Reference and Sample Clock Inputs
- Companion AC/DC Power Supply Supplied
- Operator/ICD/Receiver Interface Manuals Provided

For more information, please contact:
Northrop Grumman Corporation
Electronic Systems
Xetron Campus - Business Development
460 West Crescentville Road
Cincinnati, OH 45246
Telephone: (513) 881-3290
Fax: (513) 881-3543
e-mail: marketing.xetron@ngc.com
website: www.northropgrumman.com

Specifications and features subject to change without notice.