



HIGH-PERFORMANCE MULTI-BAND RF RECEIVER COMBINER / DECOM

RF input : IP output - superior operation and control – single and multi-channel configuration



Parraid's high-performance receiver can be provided in platforms ranging from low-cost portable units to certified airborne enclosures to multi-stream rack-mount industrial and rugged recorder, real-time data processing, and dedicated receiver systems. The portable compact 1U X-5000 unit is available in commercial and rugged (X-5000R) enclosures and supports one and two RF inputs. The 1U rack-mount "i4" unit, with BNC bulkhead, supports up to four RF inputs. Local (or remote) Ethernet control and status is provided with the X-5000 and X-5000i4 units.

The ruggedized 4U Rx2 chassis features a front panel touchscreen, rear panel BNC bulkhead, integrated hard drive(s), and dual-redundant power supply. Multi-channel receiver-combiner and receiver-decoms

may be integrated within industrial and portable G2e Ch10 recorder and Series-5000 real-time systems. Local and remote control is also provided with the Rx2, G2, and Series-5000 systems.

KEY FEATURES AND CHASSIS OPTIONS

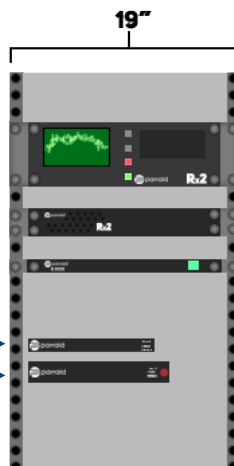
- ▶ RF signal input: Ch10 data output
- ▶ Multi-band L, S, and C – all standard
- ▶ Spectral, Video, Constellation display
- ▶ Pre-Detection Diversity Combiner
- ▶ LDPC Decoder - standard
- ▶ Aux Outputs - antenna control
- ▶ Noise Figure < 6 dB - typical
- ▶ Portable, rugged, rack-mount chassis



*Portable, Lightweight,
1U Rack-mountable X-5000*



*Portable Rugged X-5000R Receiver Decom
X5000-Rec-PF Rev 00*



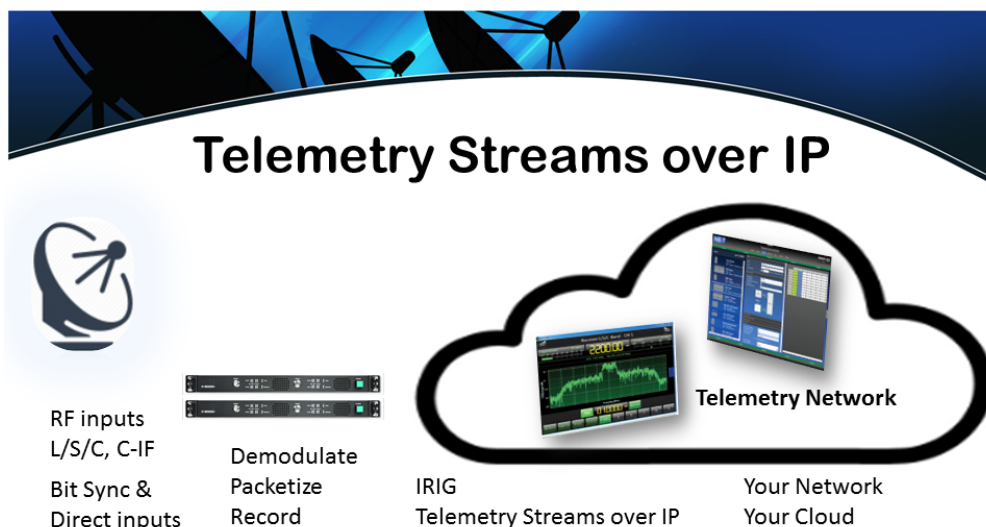
*Rugged 4U Touchscreen -
Recorder / Processor Option*



Industrial 2U - Recorder / Processor Options

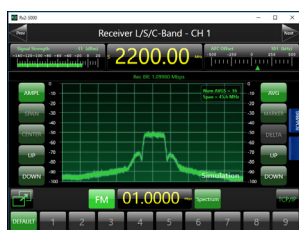


Four-stream Support 1U X-5000i4



FLEXIBLE

- ▶ Portable 1U, airborne 2U, rugged touchscreen 4U
- ▶ RF, IF, and baseband I/O
- ▶ Data/clock output and decom data/clock Input
- ▶ Local control and remote ethernet control interface
- ▶ IRIG ARTM demodulators
- ▶ LDPC decoder
- ▶ Configurable UDP and TCP/IP network interface
- ▶ Multi-channel receiver and receiver-Combiner
- ▶ Best source selection and RF source summation
- ▶ Programmable IRIG time A, B, G Input
- ▶ Serial data/clock and Chapter 10 TMoIP outputs
- ▶ Analog FM, PCM/FM, SOQPSK-TG, BPSK
- ▶ NRZ-L/M/S, BIØ-L/M/S and derandomizer
- ▶ Removable media – recorder / processor systems



Receiver GUI and Touchscreen



NExT Real-time Processing Software



Clarity Display Software

SCALABLE

- ▶ Single-channel to twelve-channel configurations
- ▶ Embedded serial and audio outputs per channel
- ▶ Spectral, Video, and Constellation displays
- ▶ SMA and BNC rear panel bulkhead connectors
- ▶ Optional Video, AM, AGC outputs, per channel
- ▶ Optional independent programmable bit sync(s)
- ▶ Includes NExT decom software: optional processing
- ▶ Optional recorder configuration



DESIGN | BUILD | SUPPORT

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X5000-Rec-PF Rev 00

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