



X5000i4 RACKMOUNT 4-STREAM RECEIVER/BIT SYNC-DECOM UNIT

A high-performance compact 1U multi-stream telemetry network appliance

The 1U rack-mount X-5000i4 enables high-performance data processing and recording of multiple simultaneous telemetry data streams. The X-5000i4 may accept noisy signal inputs and will provide clean digitized Chapter 10 packet network output over industry-standard 1Gbps Ethernet connection.

The X-5000i4 may be configured to support from one data stream to as many as four simultaneous data streams. The X-5000i4 may include the L-S-C multi-band receiver and/or high-performance 1dB bit sync, or neither, and accept serial digital single-ended or differential data/clock inputs. All input types are processed and 1uS time-stamped using an independent A-B-G IRIG input or free-wheeling integrated time source.

Regardless of how they are received, all signal inputs are made available as simultaneous serial TTL data/clock and Ch10 packet outputs.

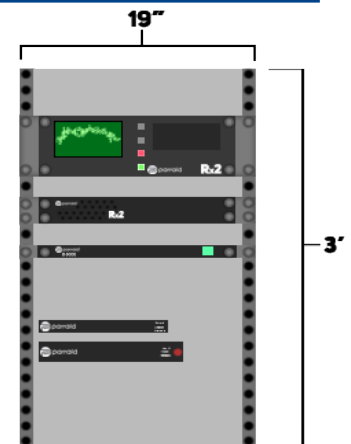
KEY FEATURES

COMPACT

- ▶ Four-stream support in 1U rack-height
- ▶ Front panel status indicators
- ▶ Rear panel BNC bulkhead
- ▶ Ethernet control



X-5000i4 front and rear panels

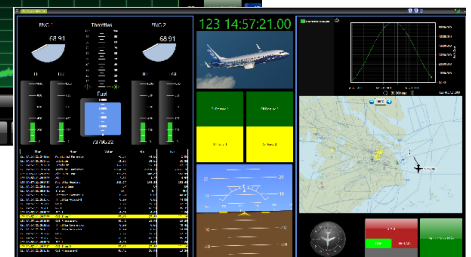


SCALABLE

- ▶ Programmable software: Control & Status GUI to NEX-PR Processing
- ▶ Single or multiple simultaneous telemetry stream inputs
- ▶ Multiple units in single compact rack: fixed or portable
- ▶ Embedded serial and audio outputs per channel
- ▶ Independent portable or high-end processing



Receiver GUI and Touchscreen

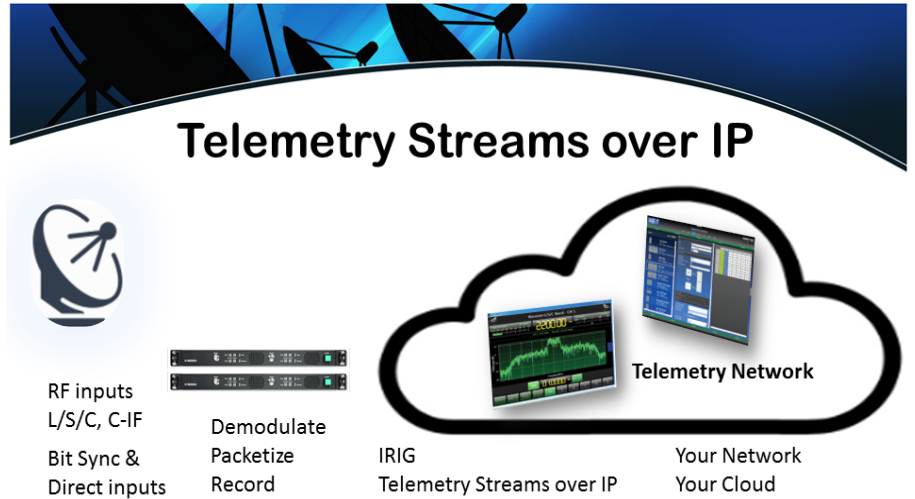


NEX Processing and Clarity Display Software

X5000i4-XX-PF Rev 00

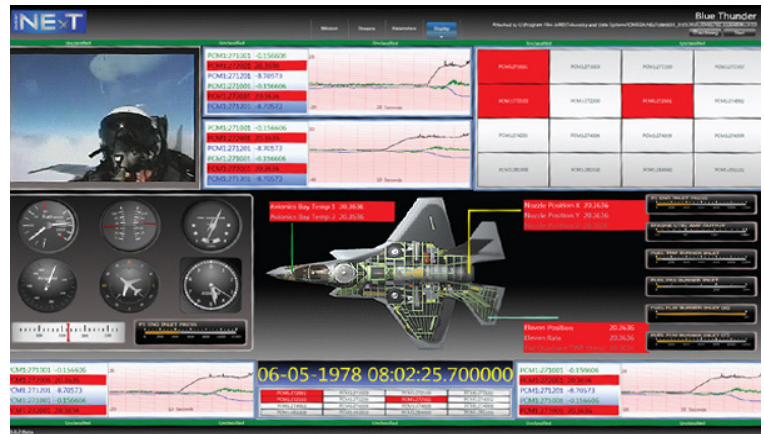
FLEXIBLE

- ▶ Multi-stream Decommutation, Dual RF in + Combiner, and Independent Receivers or Bit Syncs
- ▶ Accepts multiband RF, noisy baseband direct PCM, TTL and RS-422 data/clock inputs
- ▶ Multi-band RF input may include AGC, AM, Video signal outputs per channel
- ▶ Simultaneous serial data/clock and Ethernet Ch10 packet outputs
- ▶ Multiple embedded asynchronous frames per PCM input

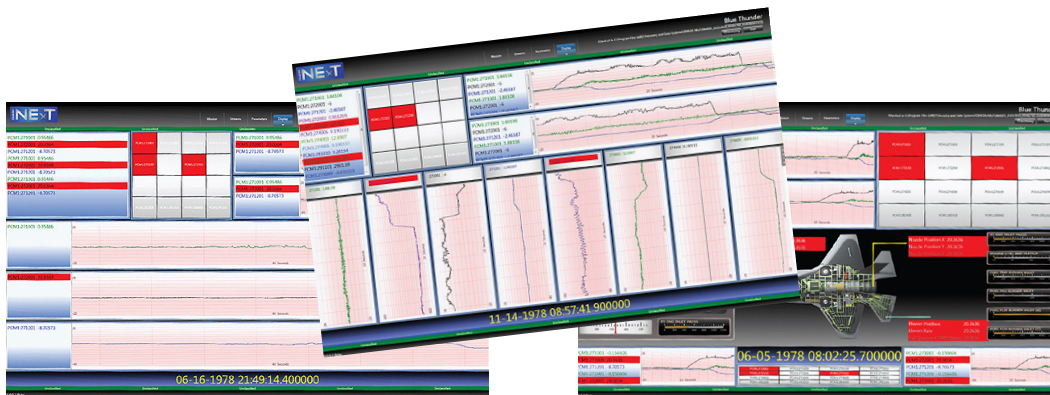


PERFORMANCE

- ▶ Decom Burst Mode support and programmable industry-standard sync strategy
- ▶ High-Performance 1 dB Bit Syncs; Typical Receiver Noise Figure < 6 dB
- ▶ Embedded async frame support for most complex frame structures
- ▶ All IRIG PCM types: Chapter 4, Chapter 7, and Chapter 8 1553.
- ▶ Minimal latency Hot Mic Audio Outputs
- ▶ Real-time Video presentation



Clarity Display Software



Comprehensive processing, display, data storage and analysis is provided with the OMEGA NEXt software suite

Please contact Parraid Sales for more details on available configurations.



DESIGN | BUILD | SUPPORT

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