



WBRA

WIDEBAND MOUNTAINBRIK™ RAID & ACQUISITION

- Record up to 1 GHz input bandwidth at 2 GSPS for hours
- Analog playback of recorded data up to 1 GHz of bandwidth
- Record at rates of up to 2 GByte/sec in a single shot or in looped mode for indefinite recording duration
- Quickly and easily swap the two removable 16 TB solid-state disk packs for additional data storage
- Ascertain system health at a glance using the intuitive, web-based control interface
- 3U chassis

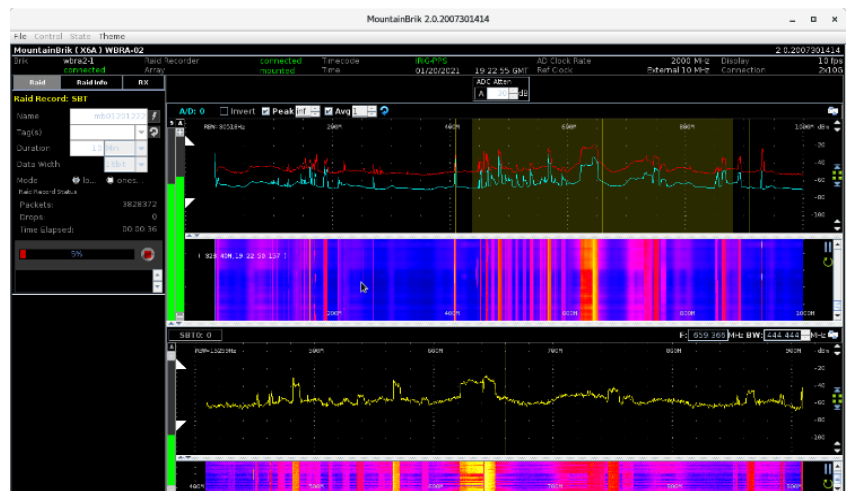
CAPABLE OF CONTINUOUS, SUSTAINED RECORDING AT RATES UP TO 2 GBYTE/SEC, the WBRA is a wideband SIGINT recorder with two 16 TB removable storage packs. A three-element, anti-alias filter bank is included for IFs 0.1 GHz to 1 GHz, 1 GHz to 2 GHz, and 2 GHz to 3 GHz.

SELECT SPECIFIC SIGNALS OF INTEREST for recording by using a configurable sub-band tuner.

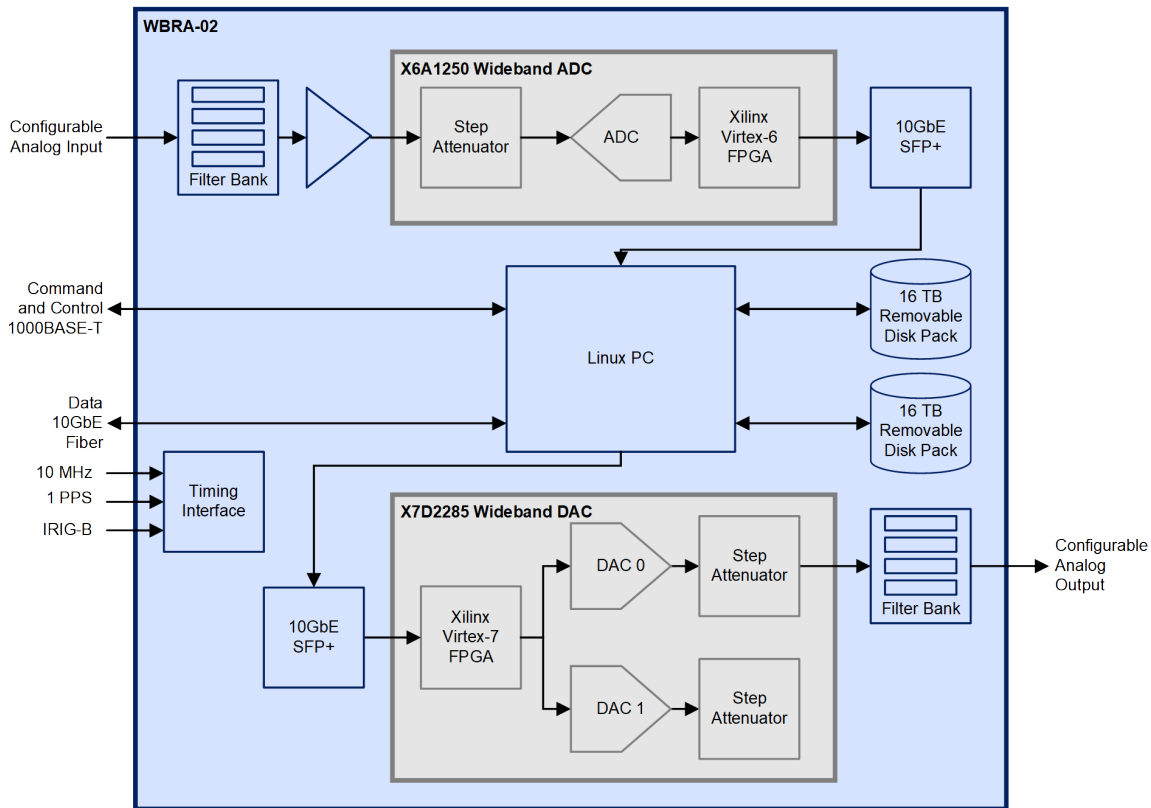
RECORDED DATA IS PRECISION TIME-TAGGED to within +/- 1 sample period (+/- 500 ps at 2 GSPS) when the system is connected to a time/frequency reference via the 1 PPS, 10 MHz, and NMEA/IRIG-B connectors.

AN INTUITIVE JAVA-BASED COMMAND AND CONTROL INTERFACE supports operation using Windows, OS X, and Linux platforms.

WBRA



BLOCK DIAGRAM



SPECIFICATIONS

PROCESSING

- Storage Capacity: 32 TB in dual 16 TB, removable disk packs
- RAID Modes: 0, 5, or 6
- Data Acquisition: X6A1250 ADC platform, developed by RRC
- Max Record Rate: 2 GBytes/s
- Processor: i7-5930K, 3.5 GHz
- RAM: 128 GByte DDR4
- Control Panel: 4-line LCD

INPUT/OUTPUT

- Analog Input: 2000 MSPS (max), 10-bit ADC, -30 dBm (nom), 0 dB to 31.5 dB digital step attenuator, 0.5 dB steps
- Input/Output Filters:
 - 0.1 GHz to 1 GHz
 - 1 GHz to 2 GHz
 - 2 GHz to 3 GHz
 - Filter bypass
- Analog Output: 2000 MSPS, 14-bit DAC, -3 dBm (full scale), 0 dB to 31.5 dB digital step attenuator, 0.5 dB steps
- Ethernet: 1000BASE-T or 10GbE fiber command and control port single-mode (1310 nm) and multi-mode (850 nm)
- Peripherals: USB 3.0 (with security door), VGA

PHYSICAL

- Dimensions: 3U 19" rackmount, 26" depth
- Input Power: 90 V_{RMS} to 264 V_{RMS}, 47 Hz to 63 Hz
- Power Consumption: 300 W, typ 450 W, max
- Analog/RF Connectors: SMA, 50 Ω
- Ambient Operating Temperature: 0° C to 45° C
- Time Tag Accuracy: within +/- 1 sample clock period of external 1 PPS

ORDERING

- WBRA-02: 2 GSPS ADC & DAC, 4-band filter banks
- WBRA-03: 2 GSPS ADC, 4-band filter banks
- WBRA-04L: 2 GSPS ADC & DAC, L-Band (950 MHz to 1750 MHz) filters only

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PRODUCTS ARE SUBJECT TO THE RESTRICTIONS OF THE ARMS EXPORT CONTROL ACT.
VERSION 1.0.

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