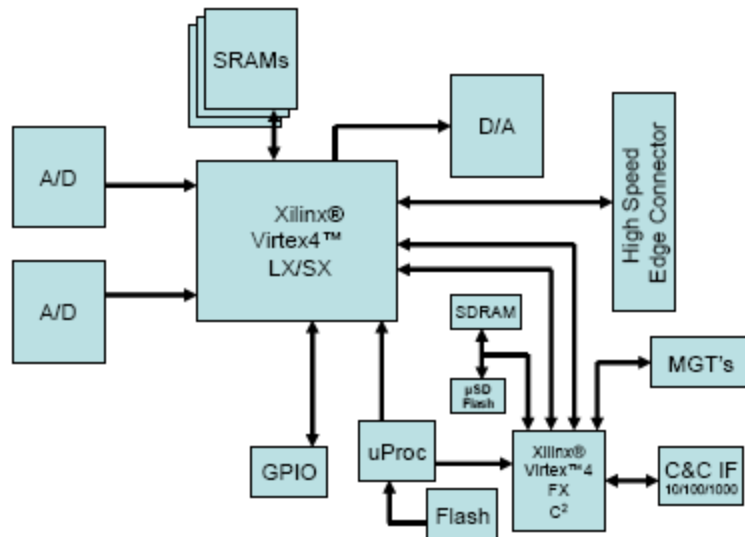


*The DSMB2-V3 Mountain Brik II is a compact, highly-flexible, portable signal analysis platform. It can analyze a 105MHz Band pass filtered spectrum in both time and frequency domain*



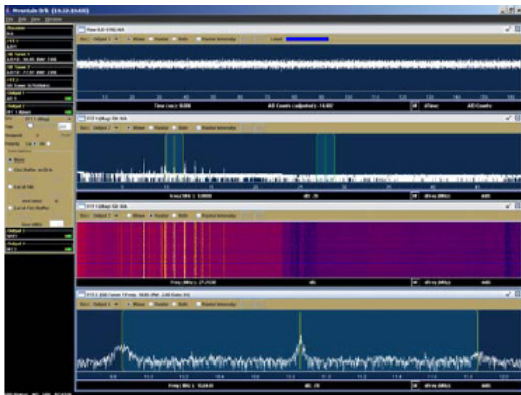
## Features

- Provides real-time, full-rate 64K point FFT for frequency analysis of wideband input
- 2 sub-band tuners with selectable bandwidth from 20 KHz to 20 MHz
- Built in communications
- Analog input B/W  $\leq$  700MHz
- 12-bit A/D converters, 210MSPS
- Precision Time Tagging from NMEA-0183 or IRIG-B
- Gigabit Ethernet interface with PowerPC Controller for command/control/data
- Second Gigabit Ethernet interface dedicated for data
- Comprised of one reconfigurable-FPGA Virtex4-based platform
- Java-based GUI is completely platform independent
- Saves signal snapshots to disk

## Description

Rincon Research Corporation's Model DSMB2-V3 Mountain Brik™ II is a compact, portable signal analysis platform. Mountain Brik allows you to analyze a 105MHz wideband spectrum in both the time and frequency domain, deploy up to two tuners on signals of interest with both time and frequency domain displays, and save the time and/or frequency domain data to disk. The analog input bandwidth of the A/D permits you to perform Direct IF conversion on signals up to 700MHz with proper Band Pass Filtering (BPF).





The real-time display shows time and frequency domain for both wideband and tuned data. In addition, there is selectable magnitude, phase, peak or average value displays for frequency domain data. All displays can be scrolled, zoomed, and viewed as raster plots.

The Mountain Brik II is composed of a flexible, reconfigurable FPGA (Virtex4®) which can be configured for multiple processing applications.

Examples of other possible DSPBrik core applications:

- Tuners—210 MSPS input (TFD—Tune Filter Decimate)
- Channelizers
- Burst/Continuous demodulators
- Snapshot takers—8 Megabyte push to PC
- FFT—standard, several versions from Xilinx and other sources; 16K streaming radix-8-based FFT

## Specifications

### General

Power Connector	2-pin locking connector
Power	9.5–13.8VDC

### Input

Analog	1 Vpp(max), 50 ohm, AC Coupled, SMB
Clock	3 Vpp(max), 50 ohm, AC Coupled, SMB
1PPS	CMOS compatible, 50 ohm, SMB
Time	NMEA-0183 RS-232 (8-wire) locking connector <or> IRIG-B, 50 ohm, SMB
Data/Command/Control	10/100/1000 Ethernet, RJ45

### LCD Display

IP Address	
Analog input over voltage	
Status	

### Physical Properties

Dimensions	6"W x 4-1/4"H x 9-7/8"D
Temperature, Operating	0C to 60C (thermalstatic-controlled fans)

### Options

GPS Receiver	
70MHz I/F Receiver	
Laptop for Display/Command/Control	