

Ultra-Low Power Field Data Acquisition For Antelope Network Operators



Marmot is a truly rugged and ultra-low power data acquisition system designed for field deployments under extreme operating conditions.

As a member of Kinemetrix' Aspen product line, the **Marmot** represents a paradigm shift in seismic instrumentation. Designed to interface with one or more Quanterra, Kinemetrix and other third party digitizers, **Marmot** allows network operators the benefit of greatly enhanced data acquisition, data concentration, and field processing capabilities, coupled with flexible communications options, including TCP/IP protocol.

Marmot comes pre-loaded with BRTT's embedded XScale[®], **Antelope** software for **Antelope** network operators.

Features

- ◆ Dynamic Power Management
- ◆ Linux version 2.4.18 Hard Hat Linux
- ◆ Advanced Power Control with unmanaged/safe/secure system shutdown and auto start
- ◆ Robust Journaling File System
- ◆ Rugged aluminum extrusion designed for 1m drop and 1m temporary immersion (IP67)
- ◆ MILSPEC Connectors with dust caps
- ◆ System Status LEDs
- ◆ Transient and EMI/RFI protection on all connections
- ◆ Extensive State-of-Health Monitoring, including input and system voltages, internal temperature, humidity (optional), communication link diagnostics
- ◆ Embeded Antelope Software (available for Antelope System users only)

Specifications

Processor:	400 MHz Intel PXA255 XScale [®]	Environmental:	-20 +70°C Operation (optional -40 +85°C) 0-100% RH (non-condensing)
Memory:	256 -MBytes SDRAM	Additional Options:	Available advanced power and communication enclosure with optional AC power, Solar Power Controller, and internal battery.
Storage:	2 x Internal Compact Flash Slots (up to 32- GBytes) 1 x SD Card 1 x SD Card Field Removable (optional)		Optional communications include internal GSM/GPRS Modem or CDMA Modem
Interfaces:	2 x 10BaseT Ethernet Ports 2 x RS232 Serial Ports 2 x USB 2.0 Ports (1 OTG/1 Host) (optional) 1 x Bluetooth Interface (optional) 1 x Integrated Modem, or Internal Spread Spectrum Radio, or Additional RS232 Port (optional)		Available hardened Ethernet Switch with Power over Ethernet IDE Drive with USB 2.0 High Speed Interface for off line data removal, "Data Vacuuming".
Power:	8-18 VDC 0.6W (typical)		

All specifications subject to change without notice