Marmot
Second Generation Antelope Device Server

KINEMETRICS

TÜV MANAGEMENT SERVICE ISO 9001

BRTT
BOULDER REAL TIME TECHNOLOGIES, INC.

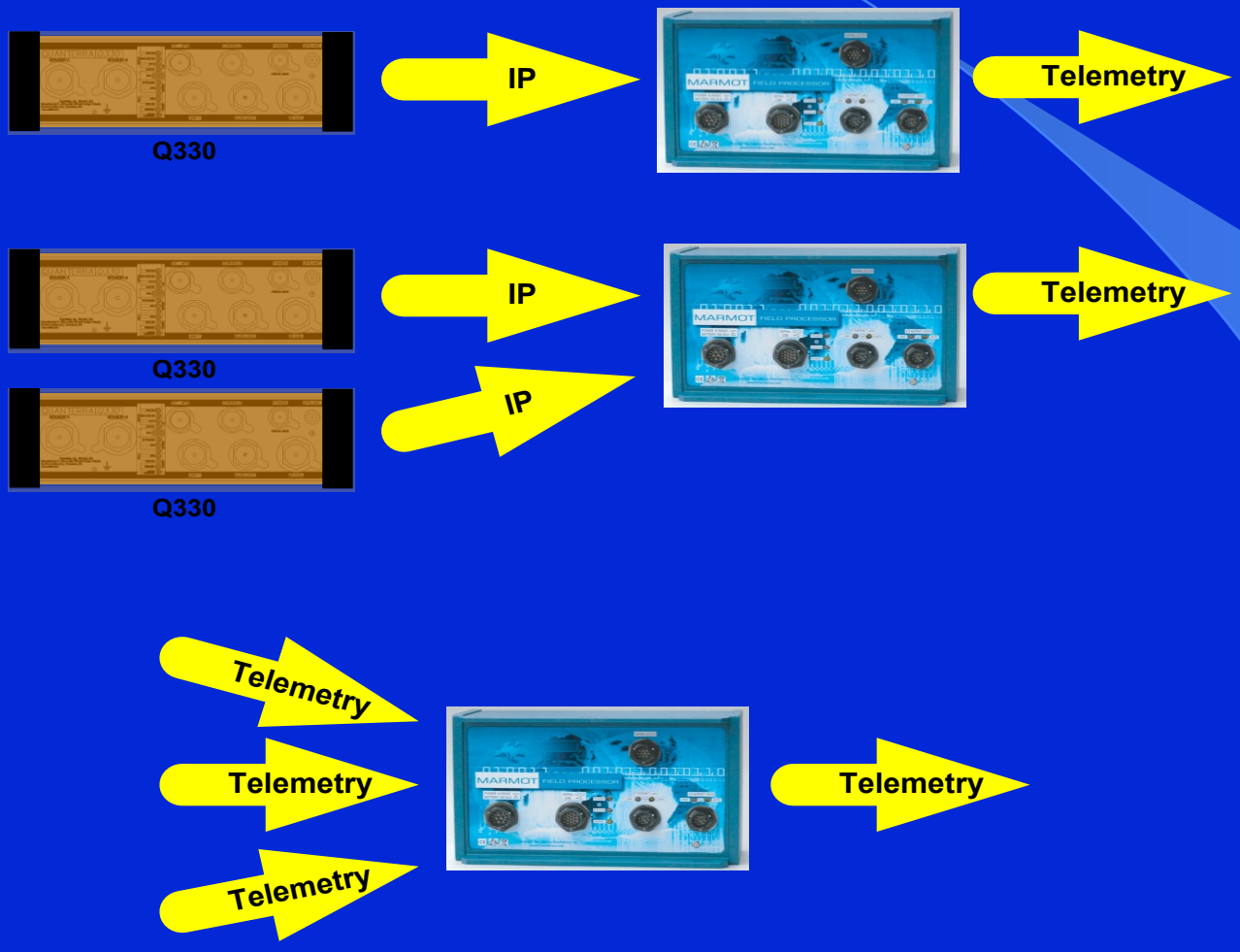
From Past to New Design!

Marmot

KEY BENEFITS:

- Rugged, Low Power, Field deployable Linux Computer
- Antelope based local data acquisition, deep buffering and telemetry
- Antelope based local data processing
- Up to 16 GBytes on CF + 4 GBytes SD card
- Multiple interfaces: 2 x Ethernet, 2 x Serial, USB, optional Bluetooth
- Power as low as 0.6 W
- Reports temperature & voltage, Antelope start-up at boot, watchdog
- Including standard protocols, e.g., DHCP, NTP, ssh
- Menu-driven configuration

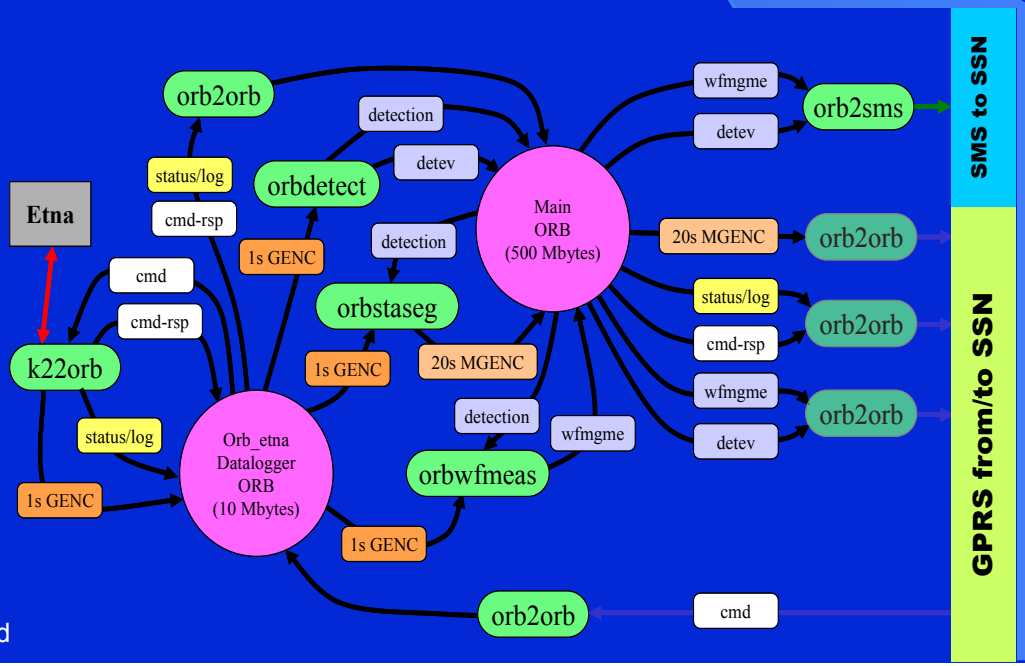
Marmot's Design Philosophy



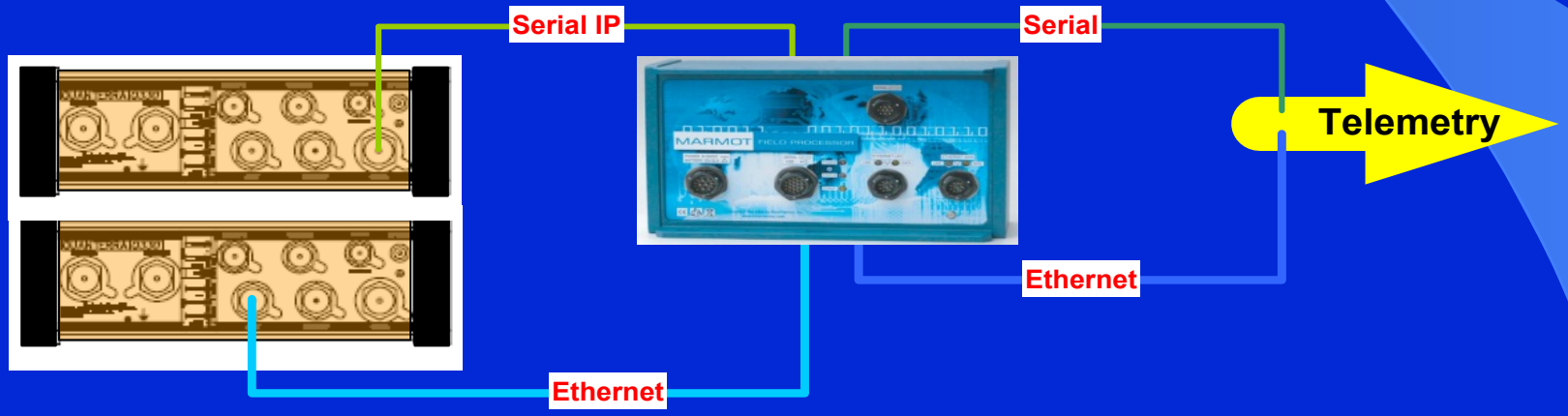
Technical Specifications

Specification	Description
CPU	Intel XScale 400MHz
Memory	256Mb
Disk	Up to 16 Gb on CF card + additional internal 4 Gb SD card. Optional Removable 16 Gb CF card
Interfaces	2 Ethernet, 2 Serial, 1 USB, Bluetooth, integrated modem or SS-radio]
Input Power	10-36VDC [8-18VDC]
Power Consumption	~0.6W @ 12VDC
Backup Power	UPS build in to support graceful shutdown [supercaps]
Auxiliary Data	Temperature, DC Voltage
Temperature	-10 to 55°C [-20 to 70°C, optional –40 to 85°C]
Telemetry	Supports any Ethernet and serial com-link (TCP/IP, UDP/IP, PPP, SLIP etc.)
Timing	NTP (including orb2ntp)
Antelope	Embedded
Physical	Sealed, Aluminum, 3 x 4 x 6 in

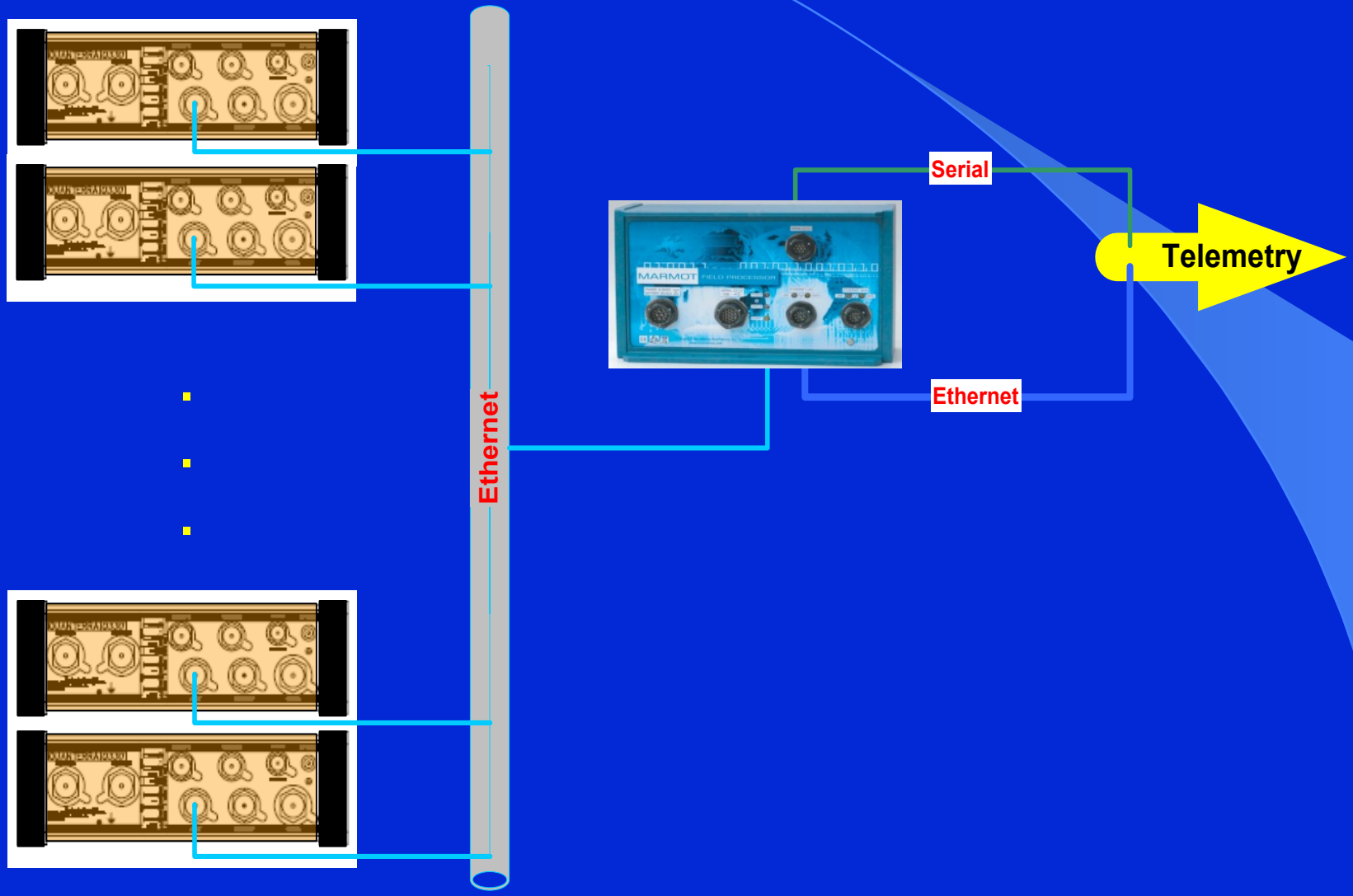
Application: Simple Local Data Acquisition and On-Site Processing



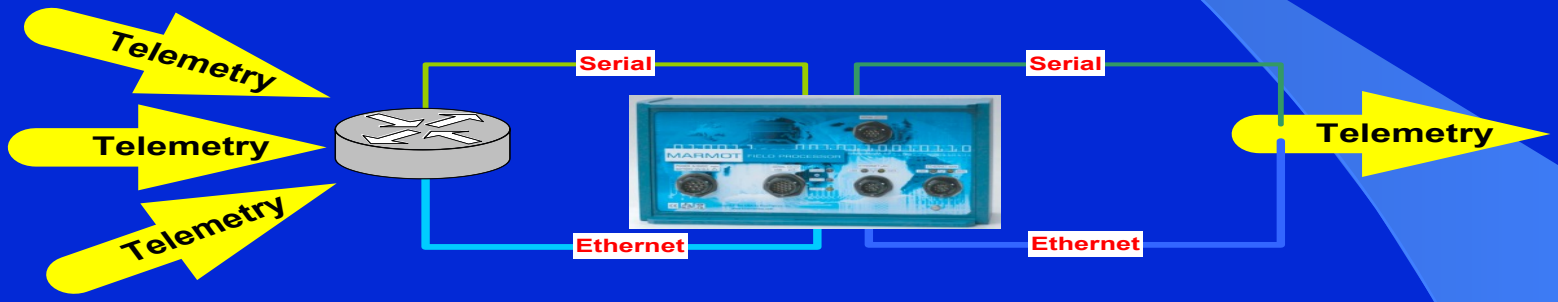
Application: Multiple Local Data Acquisition



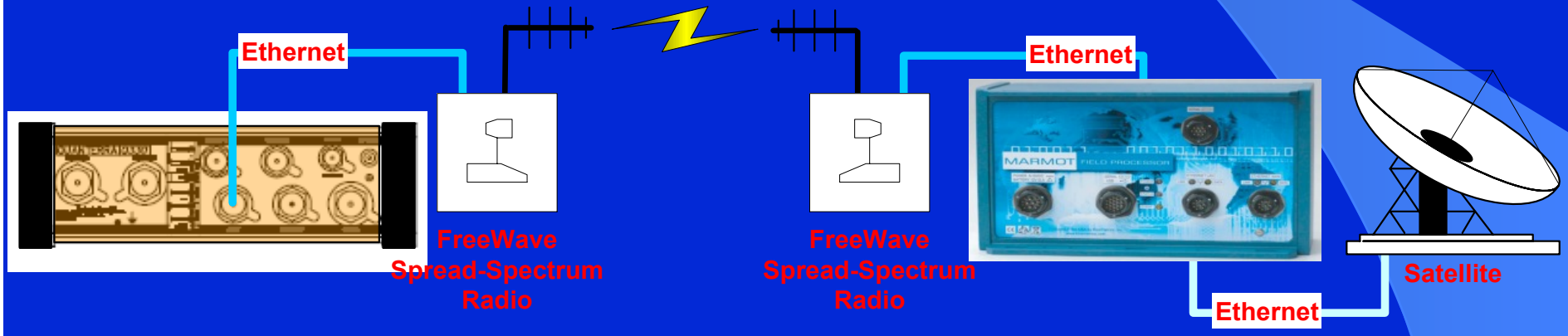
Application: Data Concentrator



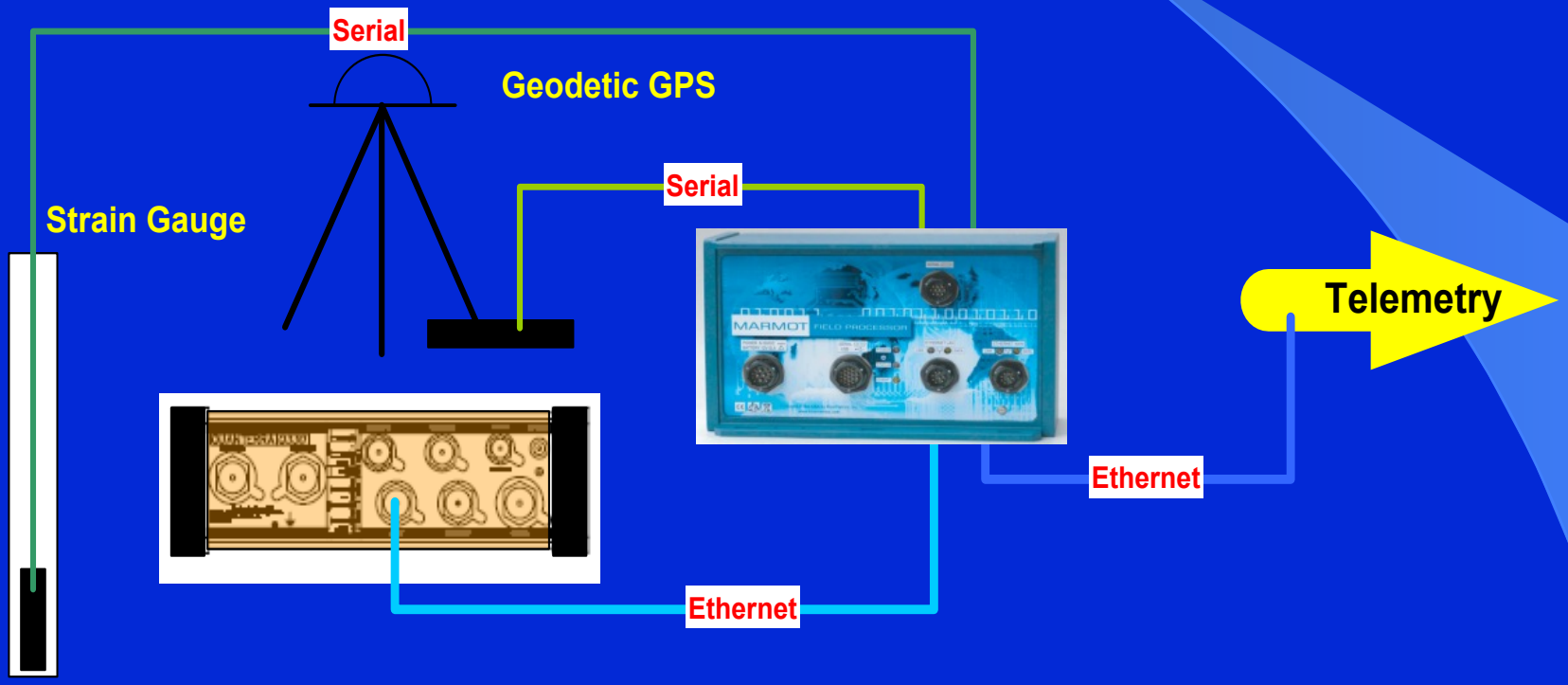
Application: Store-Forward



Application: Remote Station Store-Forward



Application: Integrating Other Equipment



Simple Configuration

Example of Past Generation Marmot Deployments

AGU 2006: Q330 + Marmot + EpiSensor: Performance, Reliability and Beyond....

Underwater Test:

24/7 for 5 days and collecting data!!