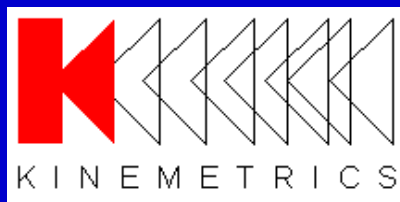


# Marmot

## An Antelope Device Server



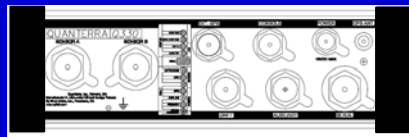
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# Marmot

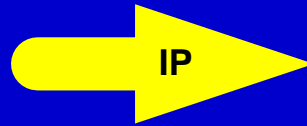
## KEY BENEFITS

- ❖ Rugged field deployable computer
- ❖ Antelope based local data acquisition and telemetry
- ❖ Antelope based local data processing
- ❖ Currently up to 8Gb on CF card [in the near future includes field replaceable SD cards]
- ❖ Multiple interfaces: Ethernet, serial [in the near future USB, Bluetooth]
- ❖ Average power requirement of about 5W [in the near future  $\ll$  1W]
- ❖ Embedded Linux 2.4.25
- ❖ Reports temperature & voltage, Antelope start-up at boot, watchdog
- ❖ Including standard protocols, e.g., DHCP, NTP, ssh
- ❖ Menu-driven configuration

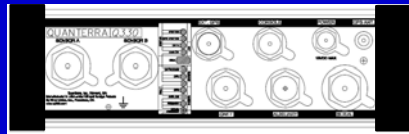
# Marmot's Design Philosophy



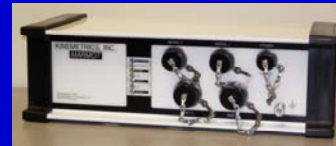
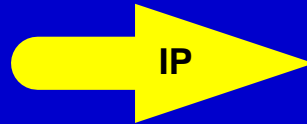
Q330



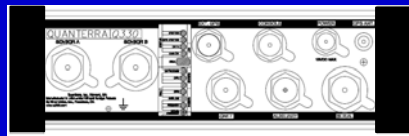
Marmot



Q330



Marmot



Q330



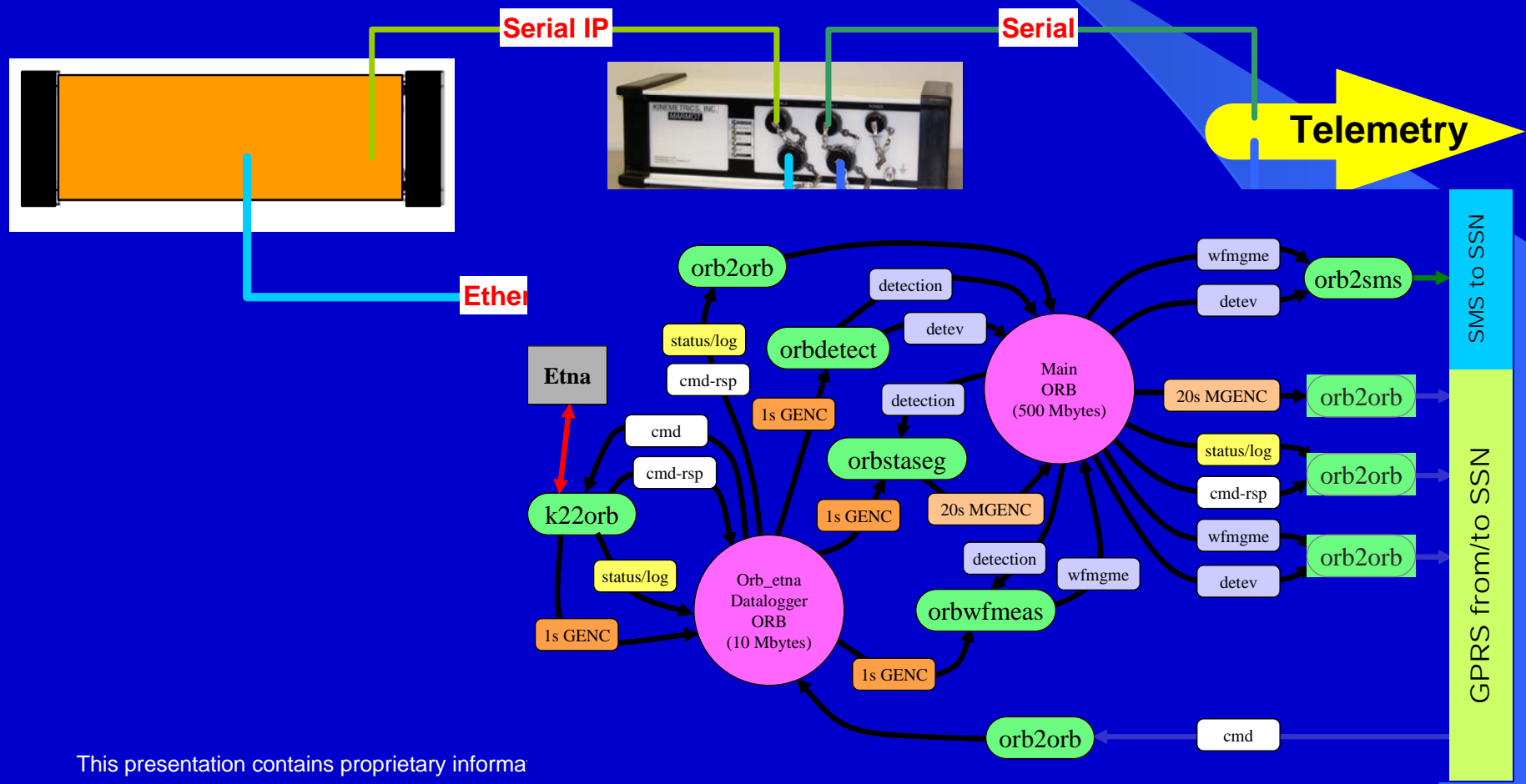
Marmot



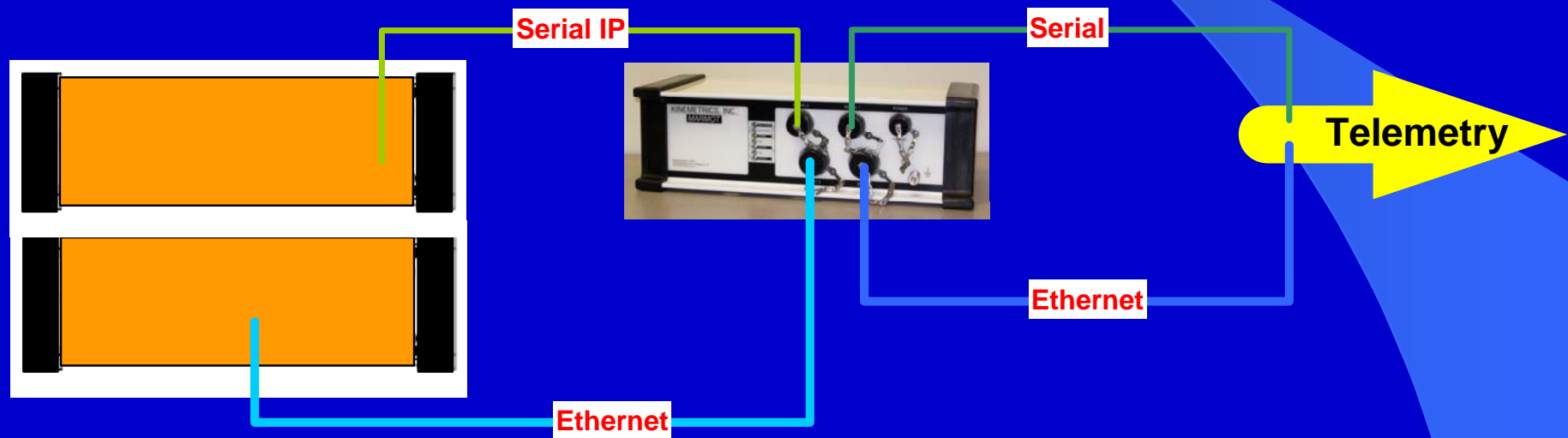
# Technical Specifications

Specification	Description [April 2006]
CPU	Intel XScale 400MHz
Memory	64Mb [246Mb]
Disk	Up to 8Gb on CF card [additional internal CF card + removable SD card]
Interfaces	2 Ethernet, 2 Serial [2 USB, Bluetooth, integrated modem or SS-radio]
Input Power	10-36VDC [8-18VDC]
Power Consumption	~5W [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

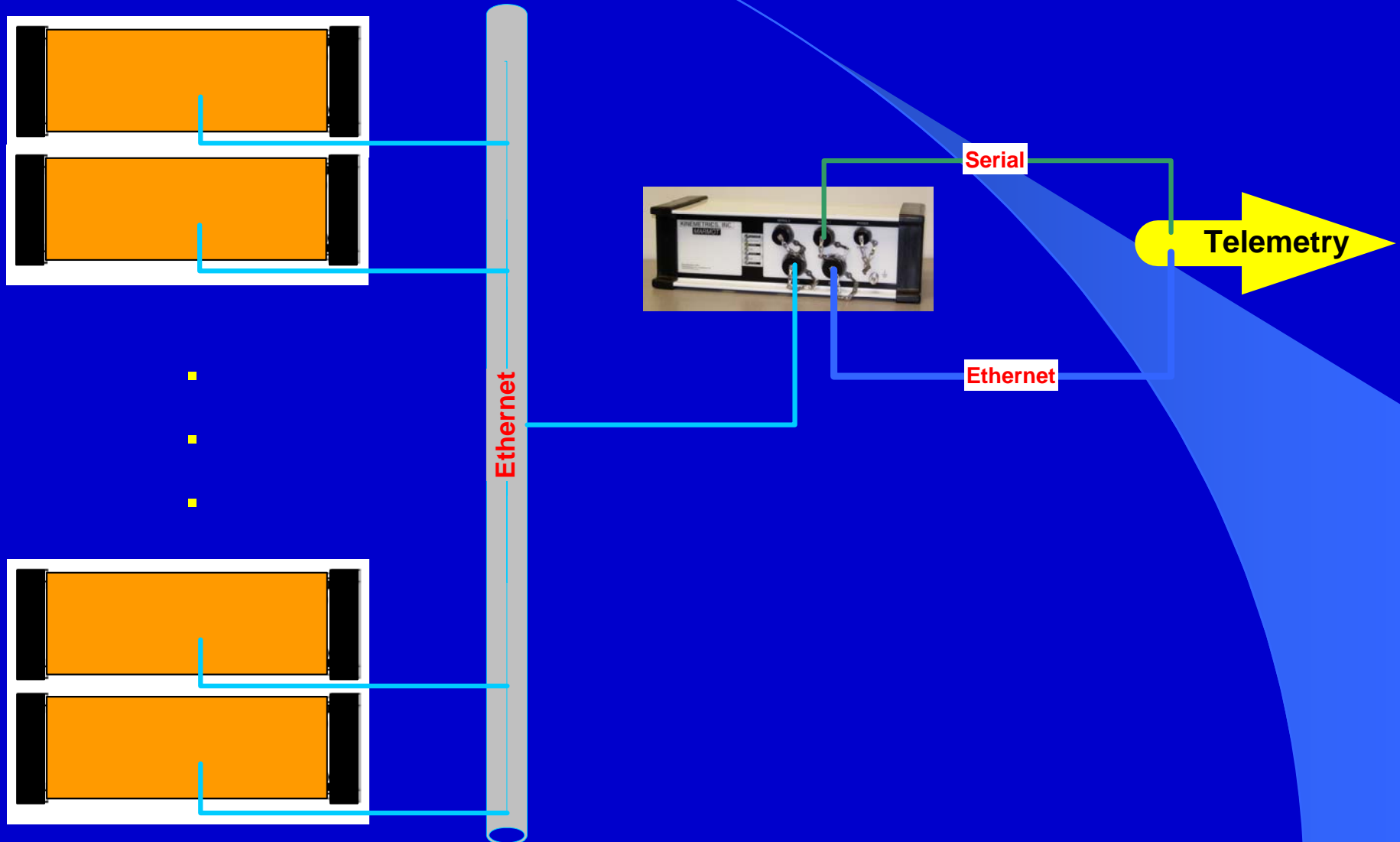
# Application: Simple Local Data Acquisition and On-Site Processing



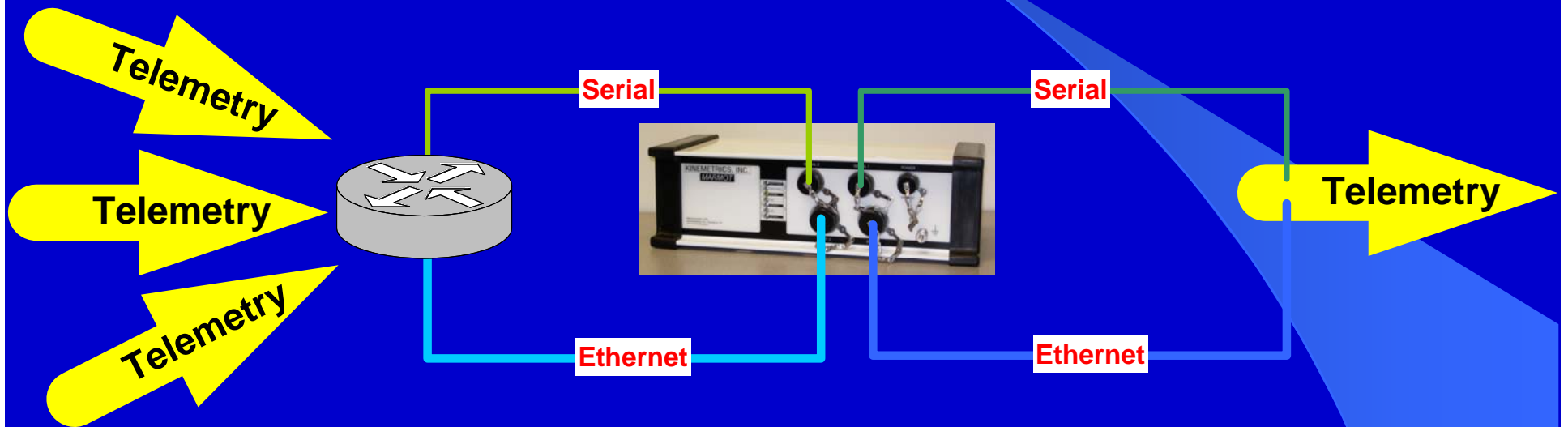
# Application: Multiple Local Data Acquisition



# Application: Data Concentrator

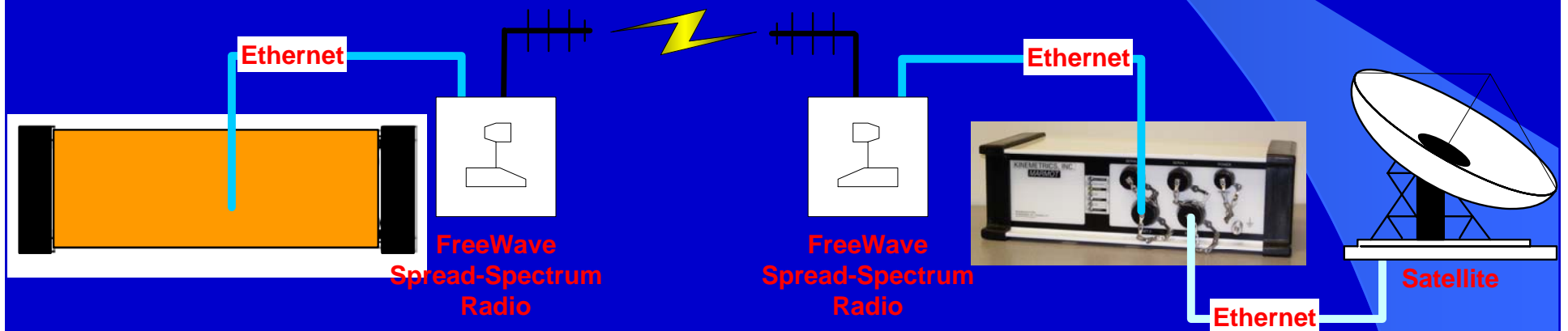


# Application: Store-Forward

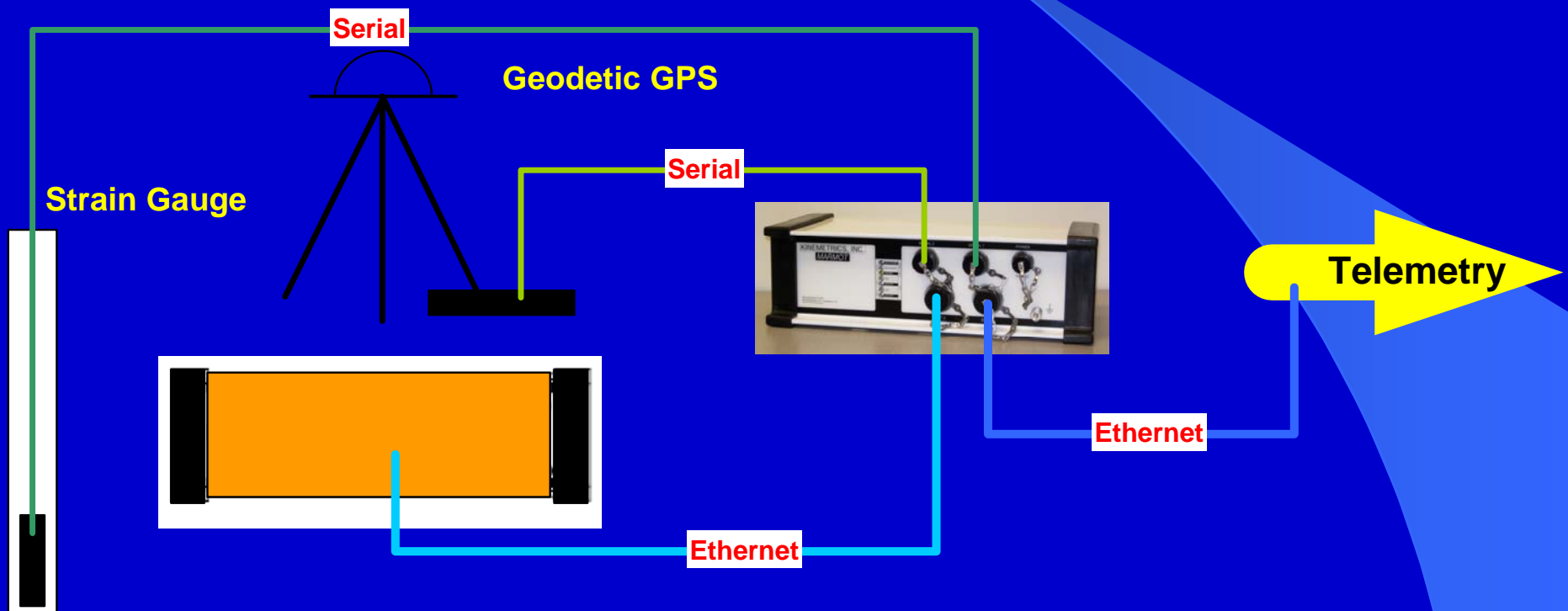




# Application: Remote Station Store-Forward



# Application: Integrating Other Equipment



# Simple Configuration



# Example Deployment



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