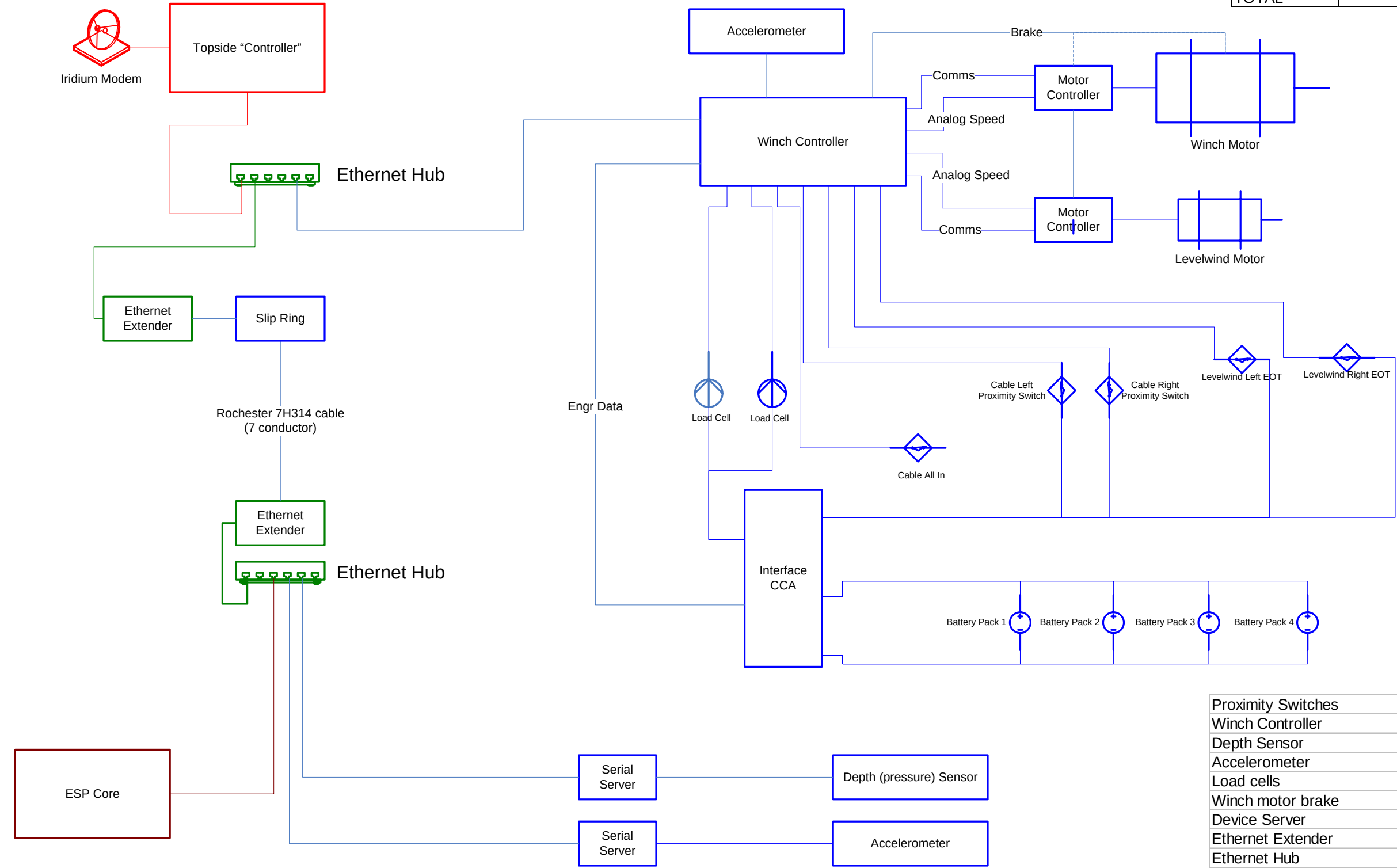


Drifting/Profiling ESP Block Diagram
Mar 6, 09

- Monitor ESP platform I&C
- Monitor Battery 1&2 bidirectional I
- Monitor Battery 1&2 voltage
- Monitor System 15 I&V (des)
- Monitor System HV I&V (des)
- Monitor Profiler batter I&V
- Monitor 75, 15, 5, 3.3, ... I&V
- Condition (voltage divide) Load cells
- Condition (de-bounce) proximity switches

Instrument	Sample size (Bytes/S)	Sample Rate (S/sec)	Bit Rate (b/sec 10b/B)
Accelerometer	100	10	10000
Depth	2	10	200
ESP Image	93750	6.94E-05	65
CTD			
TOTAL			10265



Proximity Switches	10-30	0.20
Winch Controller	5-7.5	2.00
Depth Sensor	6-30	0.03
Accelerometer	5.2-9.0	0.09
Load cells	11.0-28	0.04
Winch motor brake	24.00	
Device Server	3.30	0.25
Ethernet Extender		
Ethernet Hub		
Iridium Modem	4-32	0.85 (@ 5VDC)
Topside Controller		