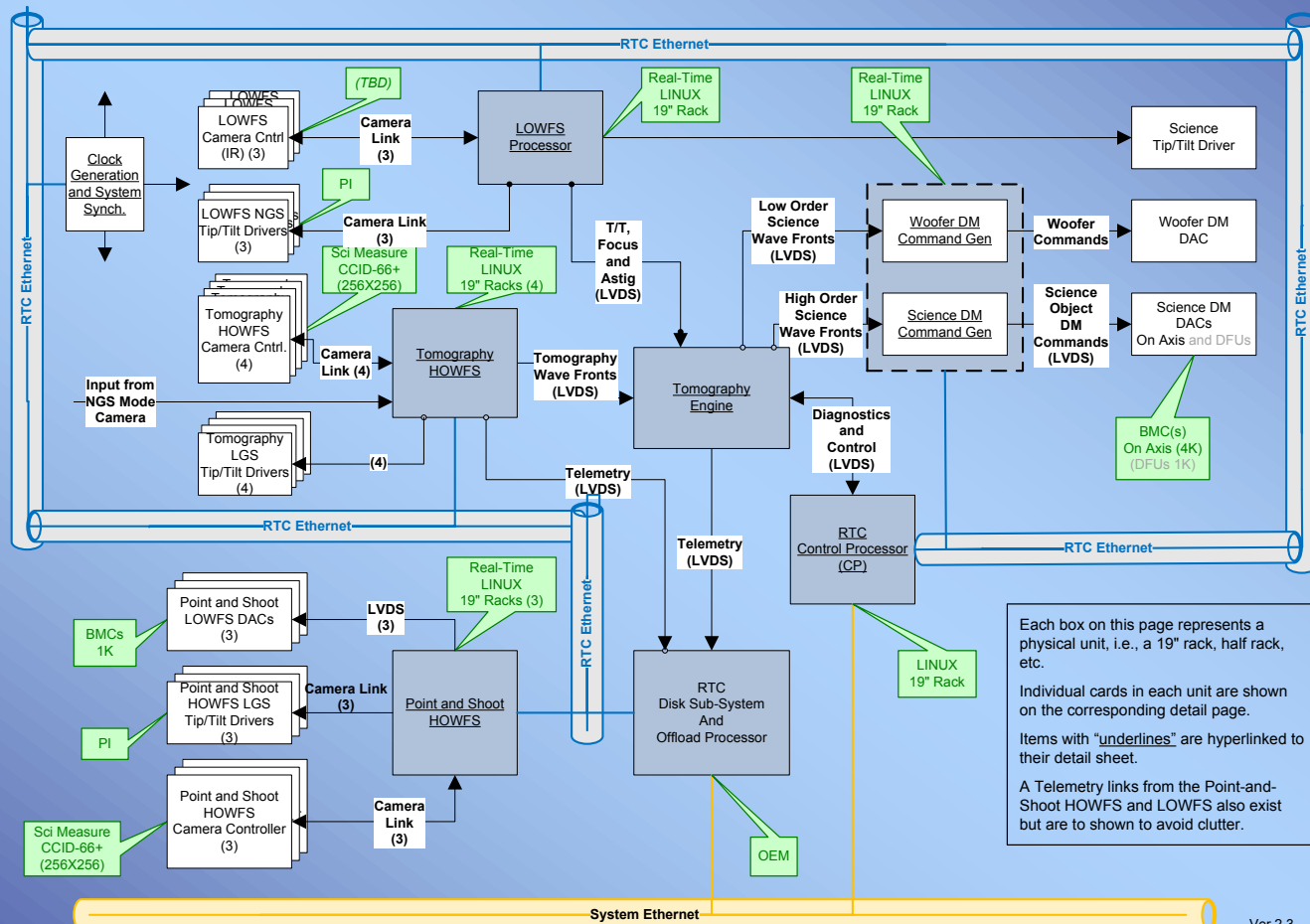


From the Outside, the RTC Appears to be a Set of Computer Chassis with Hardware Accelerators

Primary RTC Hardware Components



Ver 2.3
8 December, 2009



Major RTC Hardware and Power

Ver 1.1		8 December, 2009		
Item	PCs	Power	Optimum	Tip/Tilt
		(W)	PCs	Mirrors
LOWFS 1	1	300	1	200
LOWFS 2				
LOWFS 3				
PAS HOWFS 1	1	300	1	200
PAS HOWFS 2	1	300	1	200
PAS HOWFS 3	1	300		
Tomog HOWFS 1	1	300	1	300
Tomog HOWFS 2	1	300		
Tomog HOWFS 3	1	300	1	300
Tomog HOWFS 4	1	300		
Woofer	1	300	1	300
Tweeter				
Control Processor	1	300	1	300
Disk Sub-System	1	300	1	300
Offload Processor	1	300	1	300
Tomography Engine		1,500		1,500
Clock Generation	1	300	1	200
Camera Control	1	300	1	200
DM Control	1	300		
Tip/Tilt Control	1	300		
T/T Driver (10)		100		200
LO Camera Cntrl (7)		700		700
HO Camera Cntrl (3)		300		300
DM Drivers (5)		500		500
Heat removal				
Totals	16	7,900	9	6,000

On the Nasmyth
<2,200 W



FPGA and Board Design Contacts

- Andraka Consulting Group, Inc
 - 202 Torrie Lane
North Kingstown, RI 02852-1688
USA
- Screaming Circuits
 - 1140 NW Third Avenue
Canby, Oregon 97013-3441
- Naprotek, Inc.
 - 2945 San Ysidro Way
Santa Clara, CA 95051
tel: 408 830 5000
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FPGA Board Vendors

- Xilinx
- Dini Group
- National Instruments
- GE Fanuc
- LAO Custom

