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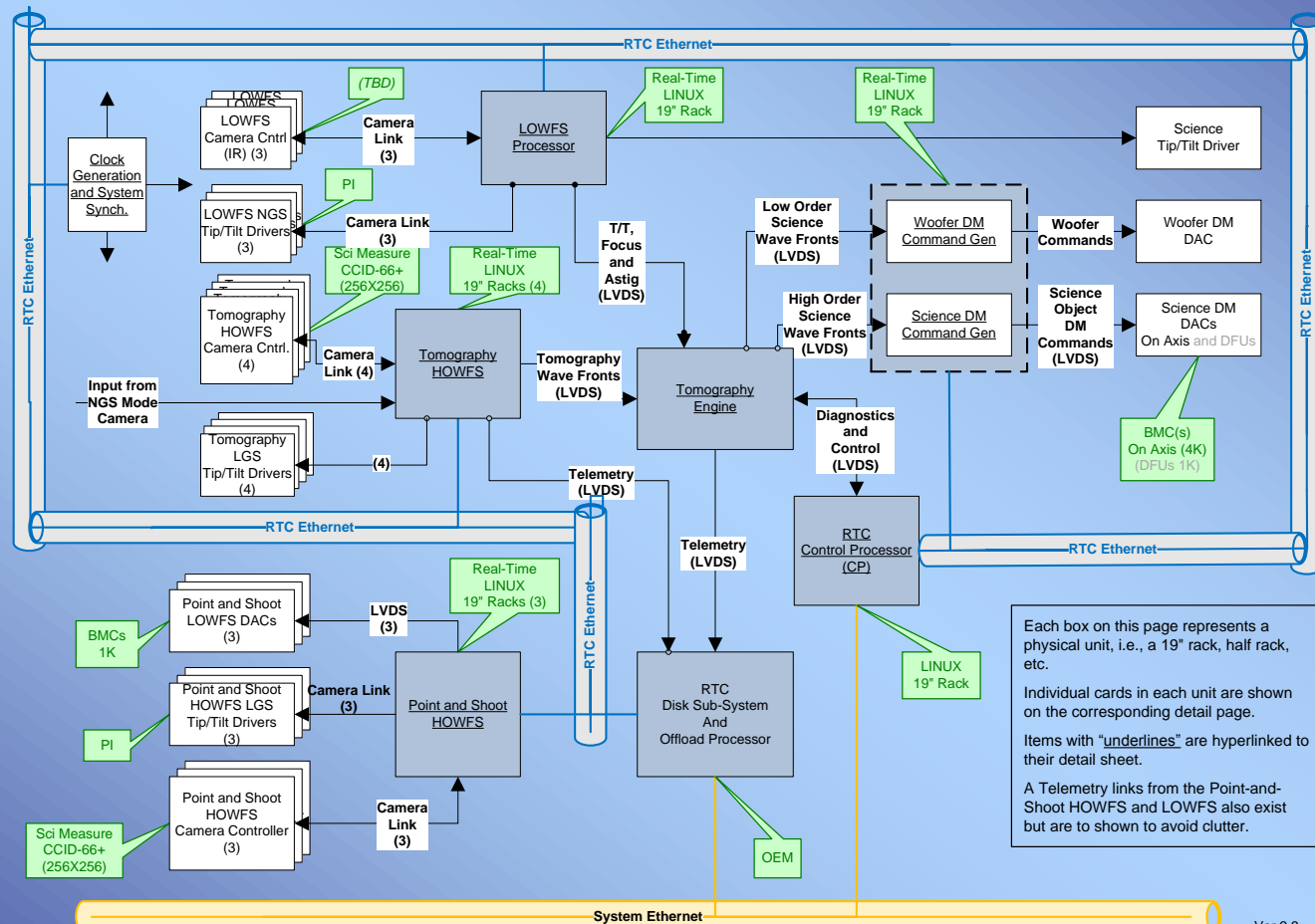

Primary RTC Hardware Components

Major RTC Hardware and Power

Ver 1.1	8 December, 2009			
Item	**PCs**	**Power (W)**	**Optimum PCs**	**Tip/Tilt 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-Sytem	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
    fax:408 830 5050

FPGA Board Vendors

- Xilinx

- Dini Group

- National Instruments

- GE Fanuc

- LAO Custom