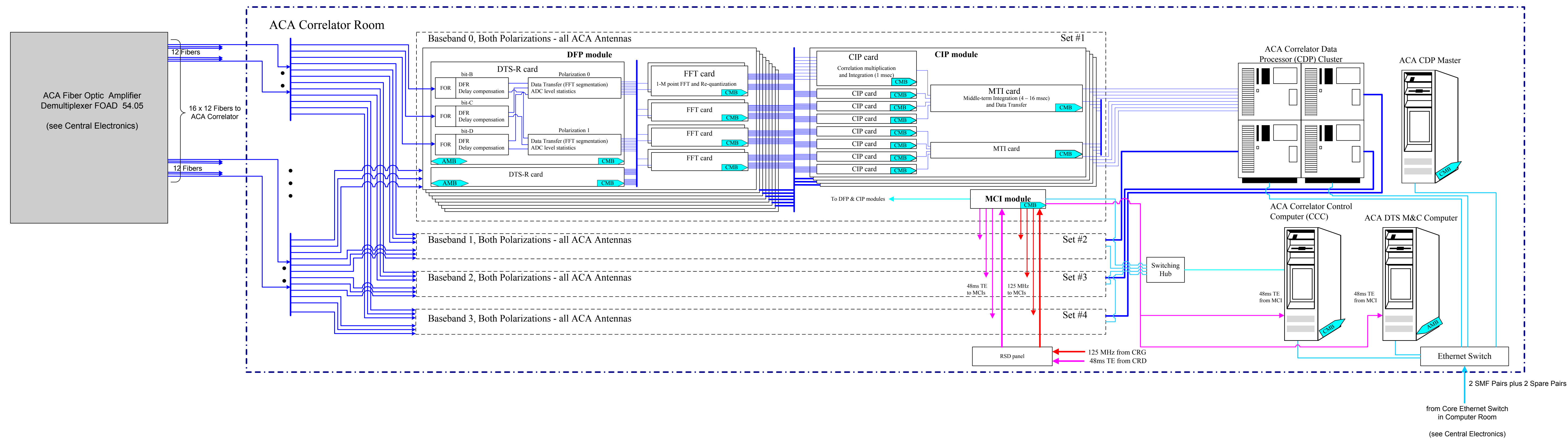


- Legend**
- RF Signals
  - LO Signals
  - DTS Signals
  - Timing References
  - M/C Signals
  - Ethernet Signals
  - Video Signals
  - Other Signals

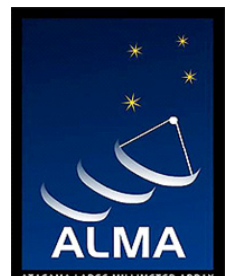
Atacama Large Millimeter Array (ALMA)

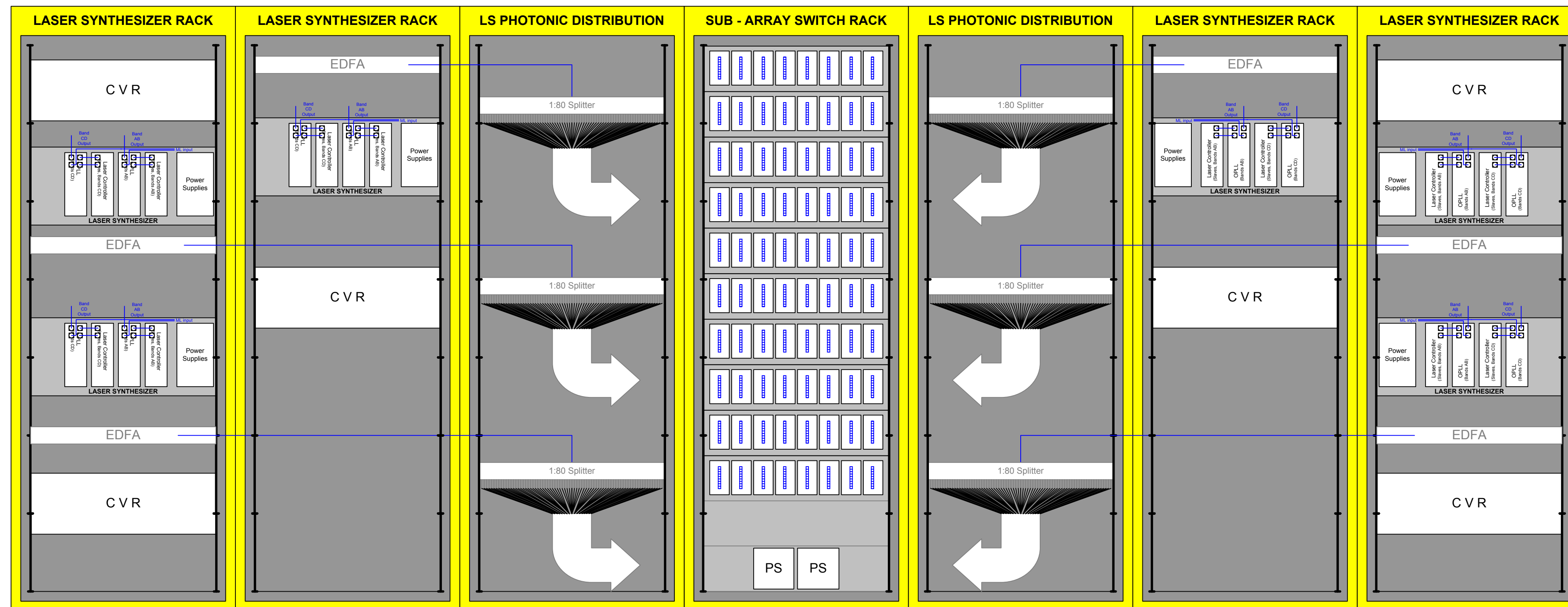
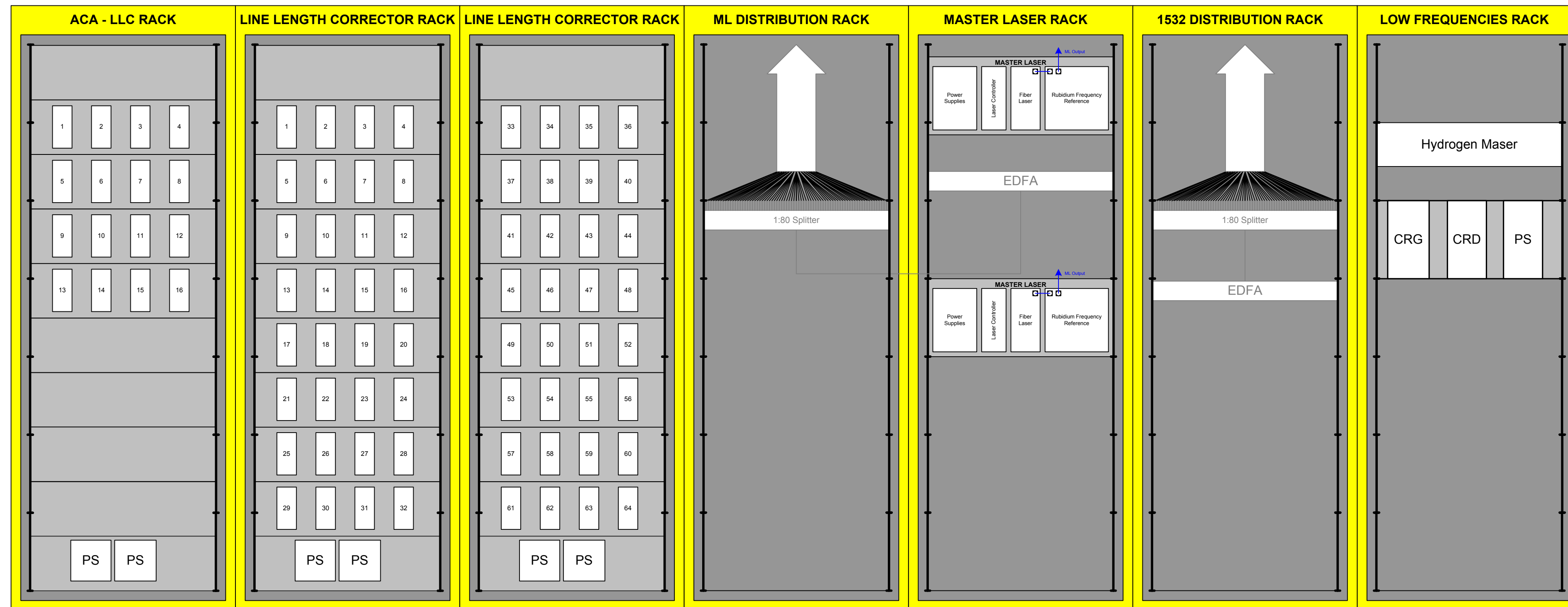
**System Block Diagram  
Central Electronics**

ISSUED BY Luitjens Popken	SIZE E	DWG NO 80.04.01.00-004	REV N
APPROVED BY	SCALE 1:1	DATE 2007-10-15	SHEET 1 OF 5

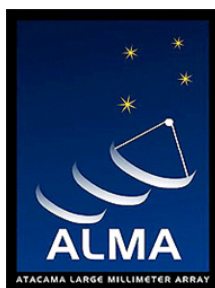


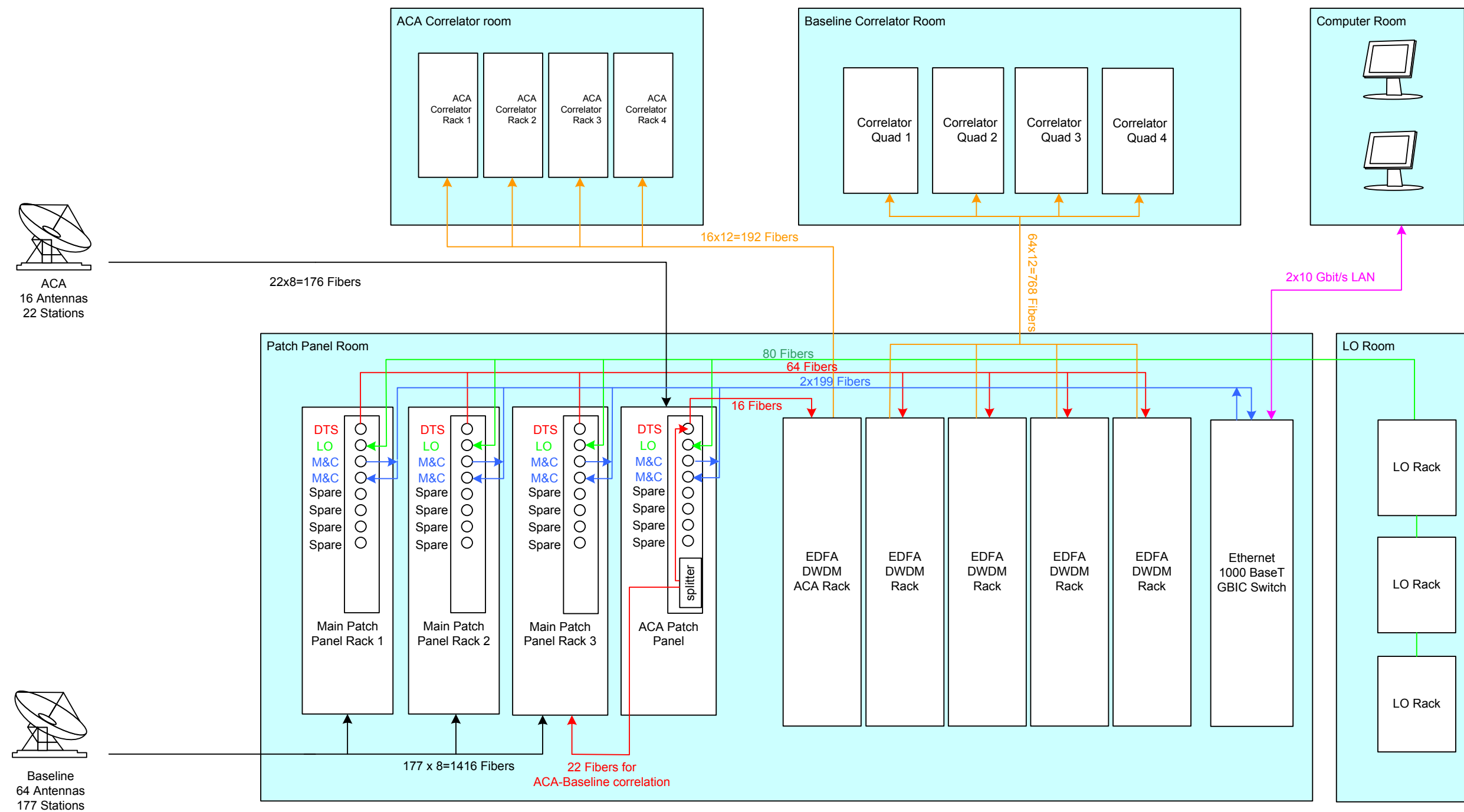
Legend	
RF Signals	Red line
LO Signals	Green line
DTS Signals	Blue line
Timing References	Magenta line
M/C Signals	Orange line
Ethernet Signals	Cyan line
Video Signals	Black line
Other Signals	Black line

	Atacama Large Millimeter Array (ALMA)			
	<b>System Block Diagram</b> <b>Central Electronics (ACA)</b>			
ISSUED BY Luitjens Popken	SIZE D	DWG NO 80.04.01.00-004	REV N	
APPROVED BY	SCALE 1 : 1	DATE 2007-10-15	SHEET 3 OF 5	




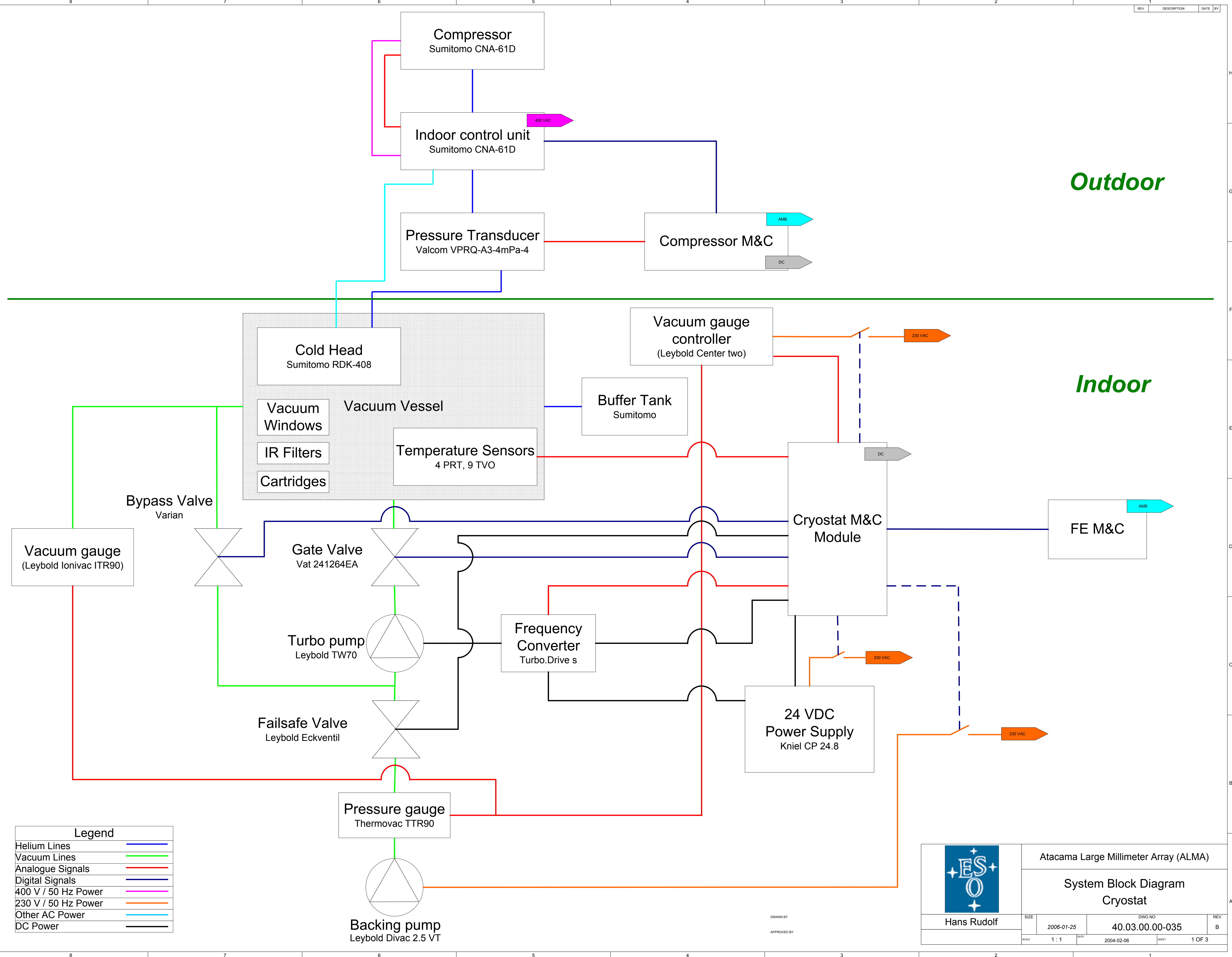
Racks are 35 RU height

	Atacama Large Millimeter Array (ALMA)			
	System Block Diagram Central LO Racks			
ISSUED BY Luitjens Popken	SIZE D	DWG NO 80.04.01.00-004	REV M	
APPROVED BY	SCALE 1 : 1	DATE 2007-06-10	SHEET 4 OF 5	



Legend	
DTS-DWDM	<span style="color: red;">—</span>
LO Signals	<span style="color: green;">—</span>
M&C Signals	<span style="color: blue;">—</span>
LAN	<span style="color: magenta;">—</span>
DTS	<span style="color: yellow;">—</span>
External Fiber	<span style="color: black;">—</span>

	Atacama Large Millimeter Array (ALMA)		
	<h2 style="margin: 0;">System Block Diagram</h2> <h3 style="margin: 0;">Patch Panel</h3>		
ISSUED BY Luitjens Popken	SIZE C	DWG NO 80.04.01.00-004	REV M
APPROVED BY	SCALE 1 : 1	DATE 2007-06-10	SHEET 5 OF 5



**Outdoor**

**Indoor**

Legend	
Helium Lines	
Vacuum Lines	
Analogue Signals	
Digital Signals	
400 V / 50 Hz Power	
230 V / 50 Hz Power	
Other AC Power	
DC Power	



Atacama Large Millimeter Array (ALMA)

**System Block Diagram**

**Cryostat**

<b>Hans Rudolf</b>	SIZE	DWG NO	REV
	2006-01-25	40.03.00.00-035	B
SCALE	DATE	SHEET	1 OF 3
1 : 1	2004-02-06		

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APPROVED BY