

"CS1" Status

18 July 2007

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CS008

CS010

CS001 CS016



HBA status (last time)

- ◆ Humidity & Temperature cycling test
 - ⊕ Serious problems with GaAs switches (delay lines)!!
 - ⊕ 21% Failures found in the 6 Tiles
 - ⊕ RF switches fail also in Climate Chamber
(95% Hum and temp cycle between 25°C and 55°C)
 - ⊕ Several circuit modifications have been tested but still failing switches

Alternative: CMOS switches, Different Manuf.

HBA status

- ◆ A teleconference was held with the switch supplier
- ◆ There are problems with reaching the humidity specification (incl. supply)
- ◆ They are busy with glassification of the switches ...

Consequence in the field

20 june 07	12-Jul-07	18-Jul-07
level [dB]	level [dB]	level [dB]
-78.2	-87.6	-87.5
-77.7	-80.4	-80.4
-77.3	-85	-79.1
-77.6	-84.7	-84.9
-77.2	-85	-87.2
-77.3	-80.1	-84.8
-77.3	-79.9	-83.1
-77.5	-86.6	-86.3
-76.9	-74.8	-79.1
-77.3	-80.2	-80.2
-77	-74.8	-79.1
-77.5	-80.3	-80.3
-77	-75.4	-79.2
-77.8	-80.8	-80.8
-77.1	-75.7	-79.4
-77.9	-80.7	-80.6
-76.8	-75	-78.9
-77.4	-86.9	-86.9
-76.5	-81	-84.1
-77.3	-84.6	-84.7
-77.4	-75.8	-79.6
-77.5	-80.5	-80.4
-77.1	-86.2	-86.9
-77.5	-83.7	-85.2
-76.5	-75.1	-78.8
-82.9	-84.9	-84.9
-76.9	-84.8	-86.2
-77.5	-86.9	-86.9
-77.2	-75.6	-79.5
-77.7	-80.1	-80.1
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-76.7	-75.4	-79.1
-77.5	-80.1	-80.1
-76.9	-80	-79.1
-77.2	-81.5	-81.8
-77.2	-75.4	-82.6
-76.7	-79.6	-79.6
-76.7	-75.1	-79.1
-78.2	-84.2	-81.5
-76.6	-74.7	-78.8
-77.5	-80.3	-80.3
-76.4	-74.5	-78.7
-77	-79.7	-79.6
-77	-74.8	-83
-77.7	-80.3	-80.2
-77.2	-82.4	-85.2
-83	-86.6	-86.7
-77.4	-74.3	-79.2
-77.5	-80.5	-80.3

Digital board status



- ◆ RSP III boards
 - ⊕ Bugs are corrected
 - ⊕ Final test expected tomorrow
 - ⊕ After that CS001 is operational with RSPIII boards
- ◆ TBB boards
 - ⊕ CEP interface is functional (bit wise tests to be done)
 - ⊕ Next Wednesday 2 TBBs are shipped to CS001

Other Station News

- ◆ CS016 antenna repaired
- ◆ Unequal cables installed in CS016 for station calibration experiments
- ◆ Spectral inversion works
- ◆ Three extra LCUs will be ordered for enabling 8 extra microstations in CS010 (at the cost of bandwidth)

CEP/WAN news

- ◆ IP renumbering in Groningen
 - ⊕ First week of September
 - ⊕ One week offline
- ◆ Successful tests have been performed when input cluster is excluded ... (not completely stable yet)
- ◆ SHM system connected to one station and able to read in the statistics of that station

Status test environment

- ◆ Two station equivalents are operational and mainly used to test firmware and software updates
- ◆ Data is send to Groningen
- ◆ No input machines are ordered yet