

## Minutes for AMiBA Engineering Telecon

Meeting Date: 20-January-2005

Participants:

Australia: Jeff

USA: Kyle, Pierre, Michel, Stephen(Vertex), Patrick, Ted

Taiwan: Homin, C.T., Steven, West

USA Dial-in = 1-800-653-5390, 6668081#

Outside USA Dial-in = 1 773 843 6301

Minutes Recorder: Steven

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### I. New Action Items:

### II. Previous Action Items (still open):

### III. Closed Action Items (as of this meeting):

### IV. Miscellaneous Discussions:

MMIC:

Receiver:

**Johnson** - We just turn off the Rx1, Rx2 and warm them up. We would like to replace the noise coupler to Rx3 and Rx4. About cold head vibration, we take the remote testing data. It looks like pretty normal. Maybe we must wait for the problems saw again. **Homin** - How is the temperature oscillating? **Johnson** - It is about 0.5 degree in about 6 hours. **Homin** - I think you can monitor the room temperature.

LO/IF:

**Steven** - I had contacted with Miteq for sending the test report of the variable gain amplifier first. The purchase request form of DRO amplifier had been sent out. I think we can get it at middle of March. Joshua had modified the electrical box circuit and I will test it today. **Kyle** - We had received the amplifiers. The gain is almost the same, 28dB at 10GHz between each others but the control voltage is still the same in 2 to 5V.

Calibration System:

Correlator:

**C.T.** - We went to the machine shop yesterday to take the enclosure. It looks OK, and they should be done on next week. We will bring it back and assemble it by ourselves. I am still waiting for the shielding. I will send the shielding to Hilo and assemble it there.

Platform/Mount:

**Phillip** - It had been shipped yesterday and did not have the arrival date yet.

**M.T.** - How is the interface ring going? **Phillip** - It is not completely finished and need some more mechanism works.

Dish:

**Jeff** - We just finish the measurement. The main is Gaussian and first side lobe is -60 dB. I will post it on the Amiba website. By optical inspection, beam pattern, dish temperature, I guess we already done, I call the project success as what we aspect. We have 1.2 meter prototype dish for delivery.

**Phillip** - How heavy is the dish? **Jeff** - 75 pounds I think.

**M.T.** - The current task should be to verify the 60cm dish in Taipei.

**Patrick** - I had organized people in Taipei to measure the dish.

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**Phillip** - How many 1.2m dishes you plan to install? **Kyle** - It should be 13 dishes. **M.T.** - At this moment, considering the man power, we plan to have 7 first.

Site:

**Stephen** - We need the amplifier and order it will take few days. The problem is isolated in leg four. From the ACU computer point of view, we need to make all six legs work otherwise we will not have many things to test.

**M.T.** - We will wait for the amplifier arriving.

**Michel** - We will make sure of the optical telescope and

**Patrick** - I need the cables and had talked to Pierre to get it.

**Kyle** - You can use the cables of prototype doom.

**Homin** - We need two cables, one for 48V power and the other for ether net.

**Ted** - At this moment, the shelter is still unstable and need a lot of improvements. Before all the improvements done, I will write some attention for running the shelter. We still need to pay more attention to running the shelter. I also replace some cable cabinet, it is much better but we still have a lot of things need to be resolved.

**M.T.** - Ted should keep looking into this issue.