

Minimum Viable Product

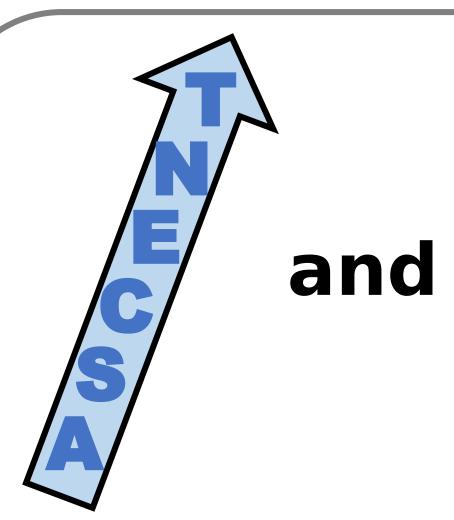
- Commercial 1U frame (ISISpace)
- Commercial EPS (ISISpace?)
- LTM
 - C&DH
 - TX/RX
- RT-IHU (nice to have)
- Passive attitude control

Fox-Plus-A

AX5043 Replacement

Find a replacement for the AX5043

Job Jar





What's Happening?

Fox-Plus Systems Engineering

Objective

- Advance systems engineering tasks
- Team
 - Mike Moore

- Now moving on to high-level system design and bus diagrams
- Examining ISISpace EPS option sheet

Fox-Plus Structure

- Objective
 - Buy the Fox-Plus Structure (and EPS)
- Team
 - Thomas Wu
- Current Activity
 - Purchase 1U frame and EPS (Thomas)
 - Option sheet (Jonathan)
 - Need to adapt Fox boards to 1U frame (Thomas)

Fox-Plus C&DH (aka IHU) Flight Software

Objective

Fox-Plus flight software

Team

- Cameron Mahaffey
- Dave McCoy
- Chris Grill

- Assemble prototype environment (Cameron & Dave)
- Prototype slow scan transmitter (Cameron)
 - A slow scan transmitter developed on the TMS570 Launchpad using modified LTM build software stack

Fox-Plus C&DH (aka IHU) Hardware

Objective

Order a whole stack of LTMs

Team

Leandra MacLennan

- Get me some LTM sets for development (Leandra)
 - Focusing on ICR Looking for alternative parts for EOL parts
 - Picking up LIHU
- Exercise the available LTM stack (Jonathan)
- RX/TX assembly
 - Assembling two more and dealing with EOL (Dan)

ASCENT Structure

- Objective
 - Develop 3U space frame
- Team
 - Tom Karnauskas
- Current Activity
 - Design 3U frame
 - Model cards in candidate frame (Tom)

ASCENT SDR Plan B

Objective

Develop SDR for Golf (i.e., five-and-dime)

Team

- Rich Gopstein
- Ray Roberge

- Build of Linux for ZedBoard (Rich)
- Design radio board (Ray & Rich)
- Obtain preliminary hardware (Jonathan)
 - Have all but FMCOMMS3 maybe use a FMCOMMS4 for software

RT-IHU

- Objective
 - Assemble RT-IHU Payload
- Team
 - Zach Metzinger
 - Heimir Sverrisson

Current Activities

- Assemble V1.1 Development Boards (Zach)
 - Result is 5 more assembled V1.1 RT-IHU boards.
- Flash Loader (Heimir)
 - Result is an updated flash loader to load the RT-IHU board

ASCENT PACSAT

- Objective
 - Develop digital packet communication payload
- Team (typically on this call)
 - Bill Reed
 - Jim McCullers

ASCENT Deployable Solar Panels

Objective

Develop deployable solar panels

Team

Vincent Risalvato

- Design solar panel and hinge solution
 - Result is a model of solar panels and hinges that fit in the pockets of the currently envisioned 3U structure.
 - Are we ready to prototype real hardware? Any luck getting cells?
 - If things are going to plan, we had a meeting with Mark Kanawati earlier today.

ASCENT RF

- Objective
 - Develop radio-chip-based SDR
- Team
 - Mike Swiatkowski
- Current Activity
 - Design voice FM transponder board

ASCENT Reaction Wheel

Objective

Develop reaction wheels and motor control algorithms

Team

Tom Davis

Current Activity

- Design Reaction Wheel controller board (Tom)
- Assemble prototype (Jonathan)
 - Unable without controller software

Keep in Mind

Possible Zero-G Flight