

OTS Testing of Prototype Correlator

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Outline

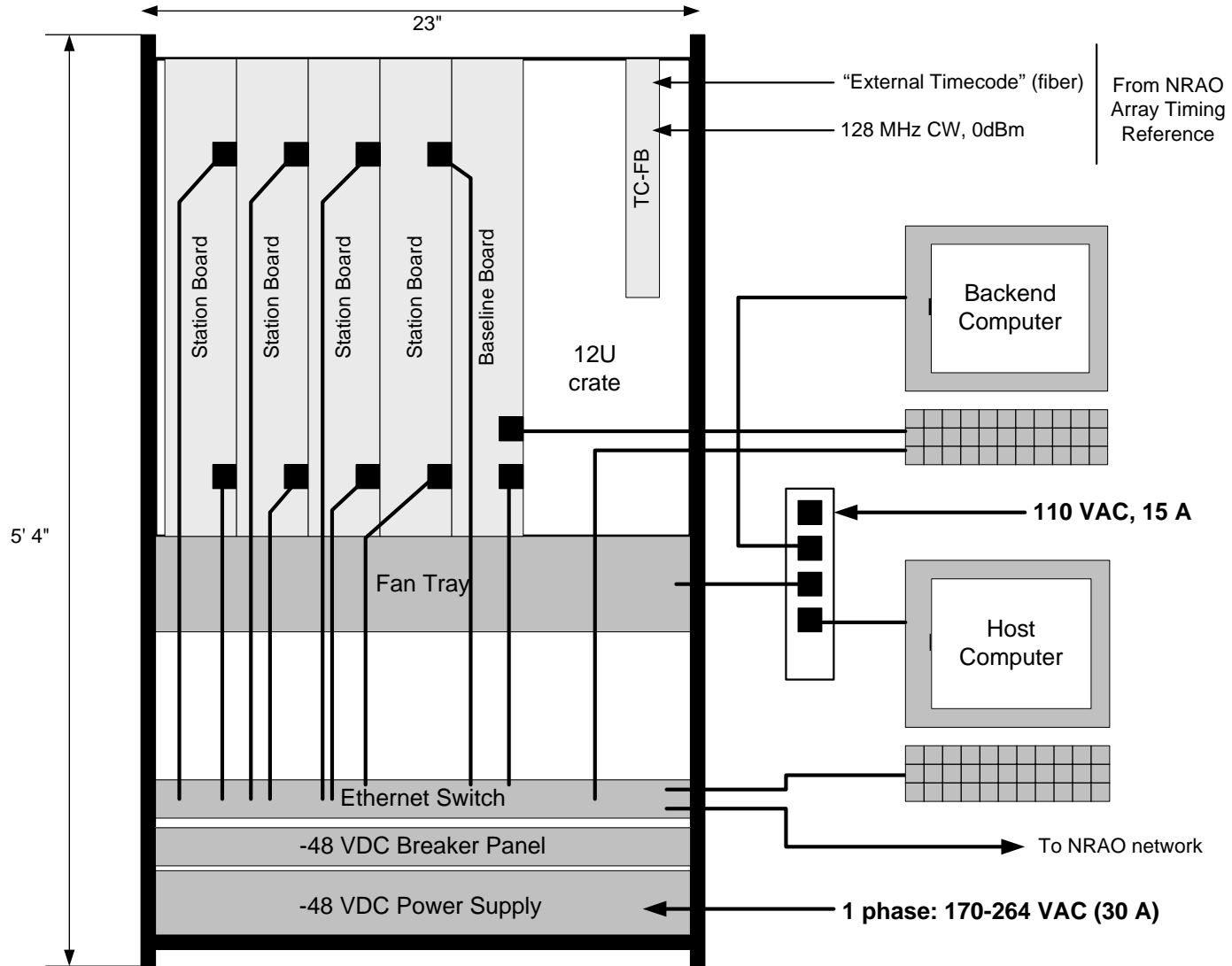
- Overview.
- Test plan
- S/W requirements.

Overview

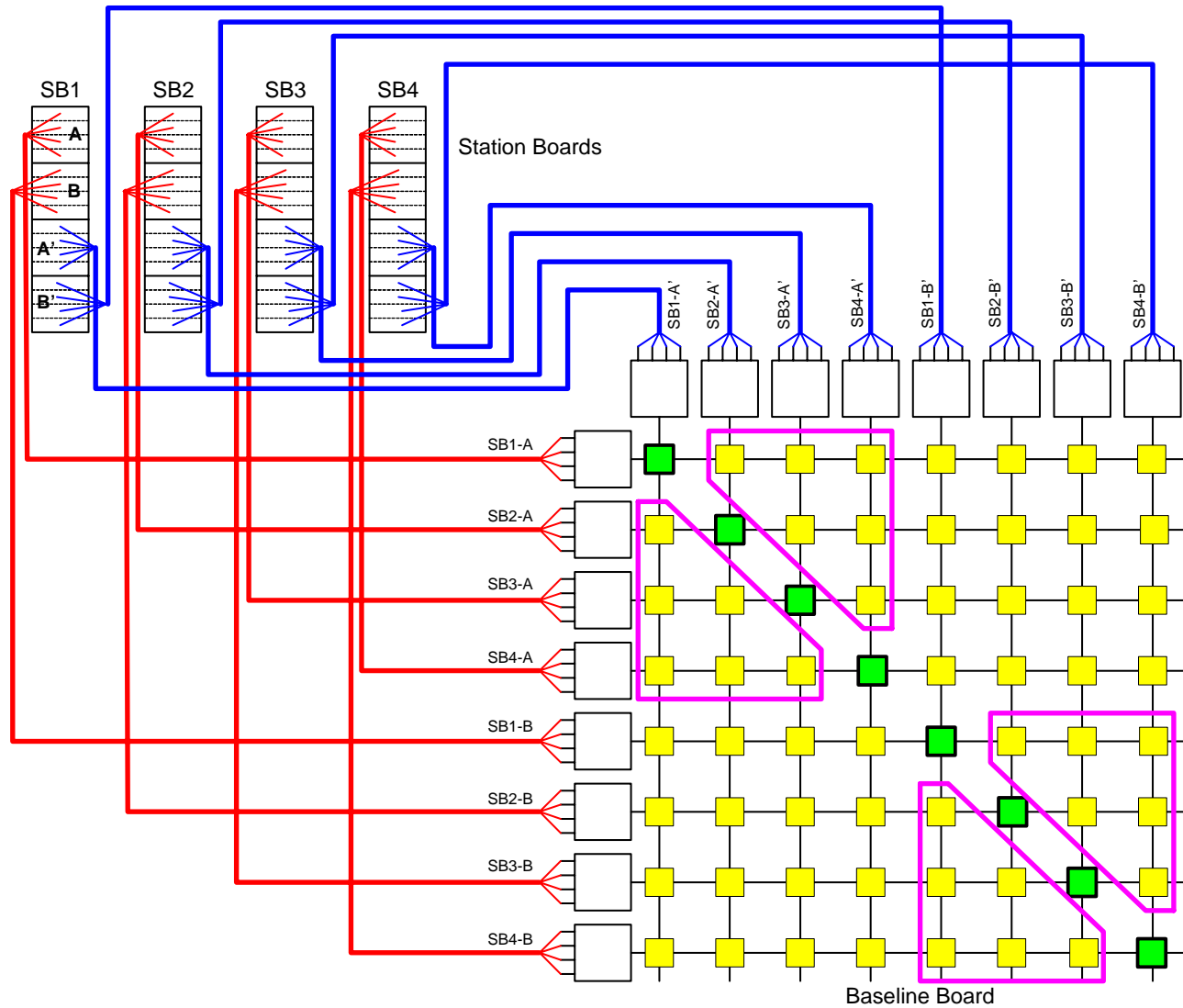
- The H/W and prototype test S/W will have been checked out to a high degree of confidence before this test.
- The primary goal of this test (from our perspective) is to provide the final assurance that the H/W “works” before committing to further full production.
 - Although, Corr Chip production must proceed before this test.
- Test plan A25010N0005 – 34 prioritized tests + 10 astronomer-determined tests.

Test Plan

- 4 Station Boards.
- 1 Baseline Board.
- 1 FB-TC.
- Computers for GUIs and CBE.







S/W Requirements

- Outlined in OTS test plan A25010N0005 and in Sonja's A25204N0001.
 - Board and chip GUIs for configuration/status.
 - Top-level and rack-level GUIs to set configs and determine status.
 - Real-time wideband delay tracking...on SB CMIB, getting models from “Model Server”.
 - Real-time phase model generation...calculated from delay models on the SB CMIB.
 - Real-time dump control...SB CMIB.
 - SB and CBE...save data products for analysis/image processing.
 - Phase and amplitude closure tests.
 - Continuum and spectral-line imaging/dynamic range tests.