

Prototype Correlator: installation and testing

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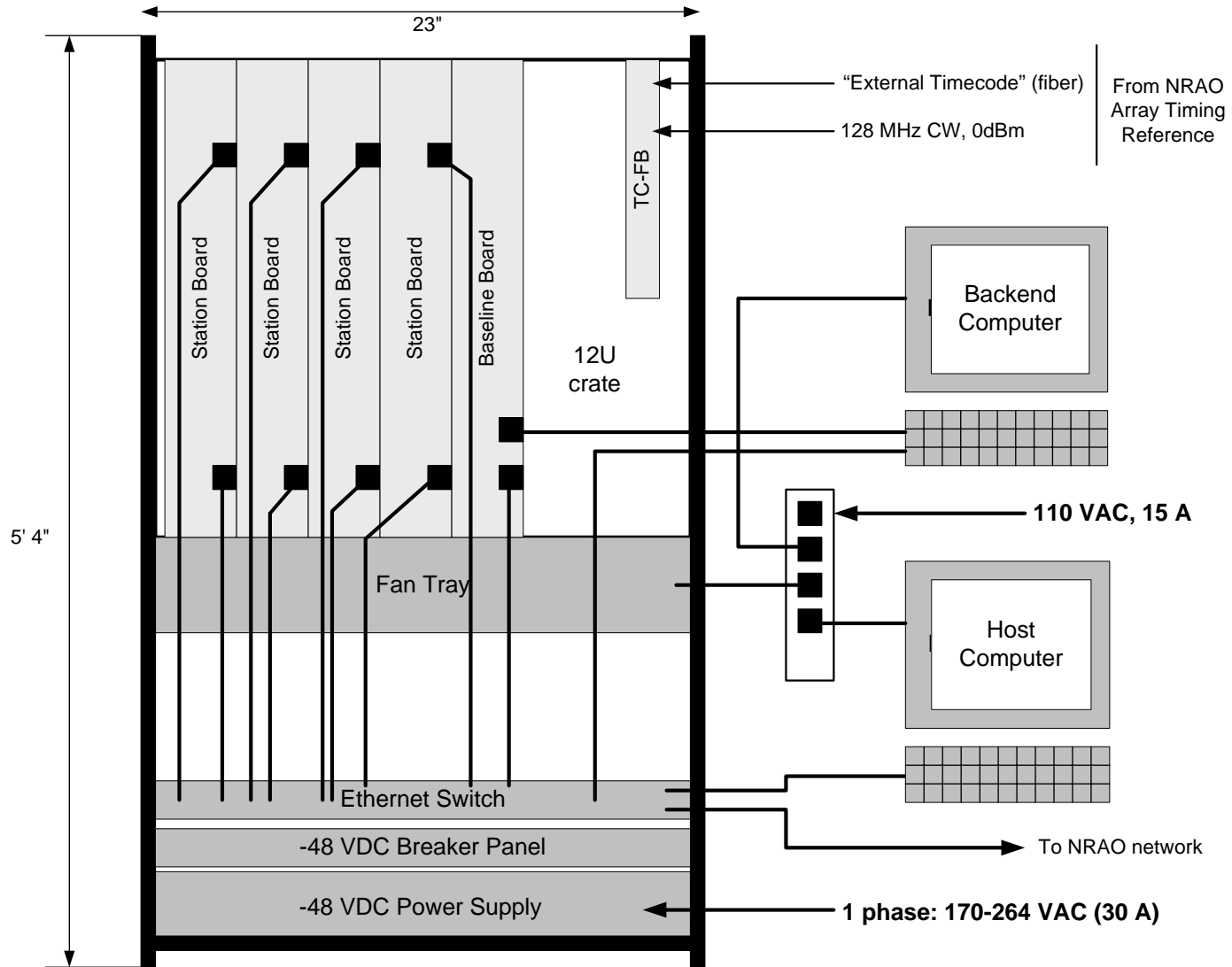


Outline

- Installation
- Testing

Installation

- Ship rack w/o installed boards to site.
- Ship boards separately.
- Install rack at site in corr room
 - Connect to 208 VAC, 110 VAC, NRAO network.
 - Install boards...connect fibers from antennas.
 - Perform system check test suites.
 - Install and verify receipt of NRAO “External Timecode”.
 - Set time to UTC.





Testing

- Verify connection to NRAO delay Model Server.
- Verify fiber connections to antennas.
- Start executing test cases...A25010N0005.
 - Check data statistics, auto-corr spectrum from antennas.
 - Check delay tracking...DTS Rx digital tone comb generator and phase-cal extractors can help to ensure proper functioning.
 - First fringe test...correlator “driven” independently of EVLA M&C.
 - Other tests...
- Once **CRITICAL** and possibly **HIGH** priority tests complete, can then start testing with proto MCCC, EVLA M&C.
 - Going to need proto EVLA M&C S/W in Penticton several months in advance of doing this kind of testing.