CONV-TTL-BLO PTS Hardware Guide
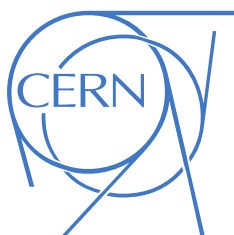
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Revision history

Date	Version	Change
28-06-2013	0.1	First draft

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List of Abbreviations

PTS   Production Test Suite

1   Introduction

Production Test Suite (PTS) is the environment designed for the functionality tests of boards at the manufacturing site, right after production. It assures that boards comply with a minimum set of quality rules in terms of soldering, mounting and PCB fabrication process.

This document contains information about the hardware of the CONV-TTL-BLO PTS.

Additional documentation

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2   PTS system

The PTS system (Figure 1) is contained within a rack containing an ELMA crate, the laptop with the PTS software installed on it and all other accessories necessary for running tests. More information about the PTS system can be found in [1].
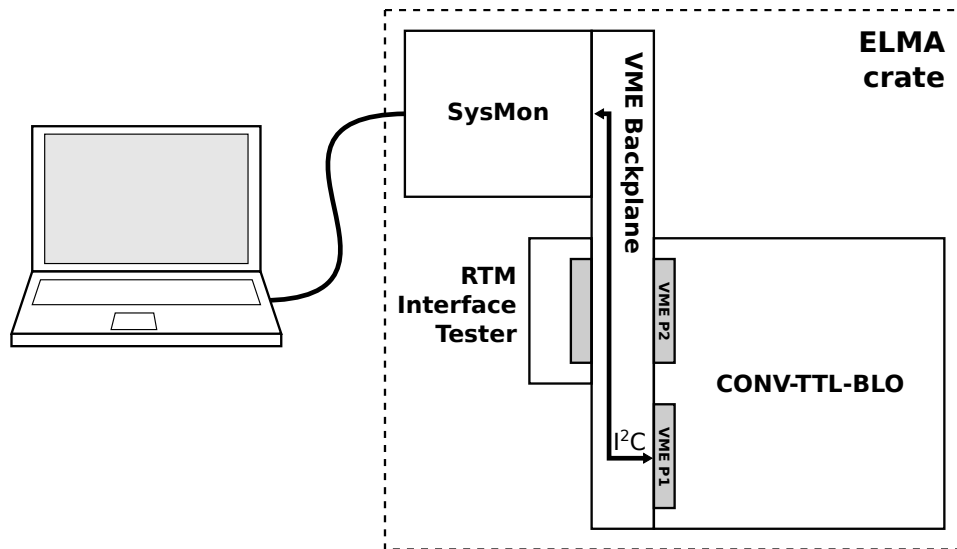

Figure 1: PTS System

The ELMA crate within the PTS contains a system monitor (SysMon) board that monitors voltage levels, temperatures and controls fan speeds for the crate fans. The crate can be accessed via Telnet to send commands to the VME boards inside the crate.

The CONV-TTL-BLO is placed on a VME slot within the ELMA crate; the SysMon will control it via the I^2C lines on the VME P1 connector to

run the tests. An RTM Interface Tester board is placed on the P2 connector in the VME back-plane. This tester board loops back signals relevant for the blocking pulse and RTM interface test.

References

[1] T.-A. Stana, "CONV-TTL-BLO User Guide." `http://www.ohwr.org/documents/263`, 06 2013.