

LATS CERN-IPMC Status

SoM-less Multiplexed Design (20/03/2025)

Sylvain LAFRASSE, on behalf of the LAPP LAr Phase2 Off-Detector team







• Two custom network (router, DHCP, ...) for in-house development: operational

- o prototyping setup: on-table ShM and CERN-IPMC DevKit
- o production testing setup: LAPP Phase1 ATCA crate
- LATS v1 pre-production readiness tests
 - REMINDER: due to NDA issues, we still have NO access to the closed documentation & sources
 sensor's drivers: all implemented and tested

• sensor's thresholds: generic, remote, exercising & regression script built and operational

- sensors systematic SNMP monitoring: dedicated Zabbix v7 VM built and operational
 - Iong test (i.e more than 1 week without any glitch): first successfully passed

• Rescue/updates at EMF/USA15: designed a portable, autonomous, JTAG & networked CERN-IPMC DevKit

o prototype: operational and actively used at LAPP for our crate

• 2 kits will be produced shortly: provisioning on-going

ocumentation and user manual: on-going

• Updated sensor's thresholds following first long test

- implemented and tested
- second long test in our crate currently on-going.





1. LATS v2 RTM support for production-readiness test

- CERN just provided what's needed in the PigeonPoint closed firmware
- first implementation will start asap
- will need to investigate RTM on-board EEPROM use for serial number reporting
- 2. FRU/SDR storage in the LATS on-board EEPROM
 CERN yet to provide related documentation.





Any questions ?