

Calorimeter Trigger Product Breakdown Structure (v1.2)

10.1.2.1 LVL1 Calorimeter Trigger

10.1.2.1.1 Preprocessor (PPr)

10.1.2.1.1.1 Preprocessor Module (PPM)

10.1.2.1.1.1.1 Preprocessor ASIC (PPr-ASIC)

10.1.2.1.1.1.2 Preprocessor MCM (PPr-MCM)

10.1.2.1.1.2 Preprocessor Readout Driver Module

10.1.2.1.1.3 Preprocessor crate

10.1.2.1.1.4 Preprocessor crate backplane

10.1.2.1.1.5 Preprocessor TCM adapter link card

10.1.2.1.1.6 Preprocessor crate CPU

10.1.2.1.2 Cluster Processor (CP)

10.1.2.1.2.1 Cluster Processor Module (CPM)

10.1.2.1.3 Jet/Energy-sum Processor (JEP)

10.1.2.1.3.1 Jet/Energy-sum Module (JEM)

10.1.2.1.4 Common modules and items

10.1.2.1.4.1 CP/JEP Common Merger Module (CMM)

10.1.2.1.4.2 CP/JEP crate

10.1.2.1.4.3 CP/JEP crate backplane

10.1.2.1.4.4 CP/JEP TCM adapter link card

10.1.2.1.4.5 CP/JEP CPU adapter (personality) card

10.1.2.1.4.6 CP/JEP crate CPU

10.1.2.1.4.7 CP/JEP serial link cables

10.1.2.1.4.8 Timing Control Module (TCM)

10.1.2.1.4.9 CP/JEP Readout Driver Module

10.1.2.1.4.10 CP/JEP Readout Driver crate

10.1.2.1.4.11 CP/JEP Readout Driver crate CPU

10.1.2.1.4.12 Readout Driver Busy Module

10.1.2.1.5 Joint Items

10.1.2.1.5.1 TileCal trigger cables to rec. stations

10.1.2.1.5.2 TileCal receiver stations

10.1.2.1.5.3 Trigger cables: rec. stations to PreProc.

10.1.2.1.5.4 Computing infrastructure

Notes:

1. Nothing specific yet about DCS, TTC, or crate power supplies. Power supply capacities might be different for the three processors but standard bricks should be used.
2. RODs have been treated as normal modules. There might also be a case for separating them into Readout System as in the TDR. Some modules in ROD crate not yet defined clearly.
3. Nothing specific yet about computing infra-structure. In-crate CPUs have been treated as modules, but even this could be done in different ways. Hopefully all will be of the same type.