

Work description
10.1 LVL1 trigger system
10.1.2.1 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 PPr ASIC
10.1.2.1.1.2 PPr MCM
10.1.2.1.1.3 PPr Anln daughter-card
10.1.2.1.1.2 PPr Readout Driver Module
10.1.2.1.1.3 PPr crate
10.1.2.1.1.4 PPr crate backplane
10.1.2.1.1.5 PPr 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 CP Module (CPM)
10.1.2.1.3 Jet/Energy-sum Processor (JEP)
10.1.2.1.3.1 JEP 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 receiver stations
10.1.2.1.5.2 TileCal receiver stations
10.1.2.1.5.3 Trigger cables: receiver stations to PPr
10.1.2.1.5.4 Computing infrastructure
10.1.2.2 LVL1 Muon Trigger
10.1.2.2.1 LVL1 Muon Barrel Trigger Processor
10.1.2.2.1.1 Low Pt Trigger
10.1.2.2.1.1.1 Splitter Board
10.1.2.2.1.1.2 Pad Logic Board
10.1.2.2.1.2 High Pt Trigger
10.1.2.2.1.2.1 Splitter Board
10.1.2.2.1.2.2 Pad Logic Board
10.1.2.2.1.3 Optical links to USA15
10.1.2.2.1.4 RX board
10.1.2.2.1.5 Sector Logic
10.1.2.2.1.6 ROD board
10.1.2.2.1.7 Coincidence Matrix Chip
10.1.2.2.1.8 Common Items
10.1.2.2.2 LVL1 Muon Endcap Trigger Processor
10.1.2.2.2.1 PS-Pack (Patch-Panel and Slave Board Package)
10.1.2.2.2.1.1 PS Board for doublet wire
10.1.2.2.2.1.2 PS Board for doublet strip
10.1.2.2.2.1.3 PS Board for triplet wire
10.1.2.2.2.1.4 PS Board for triplet strip
10.1.2.2.2.1.5 PS Board for E/FI
10.1.2.2.2.1.6 PS Board for service
10.1.2.2.2.1.7 Patch-Panel ASIC (PP ASIC)
10.1.2.2.2.1.8 Slave Board ASIC (SLB ASIC)
10.1.2.2.2.1.9 JTAG Routing Control ASIC (JRC ASIC)
10.1.2.2.2.1.10 TTC receiver and distributor
10.1.2.2.2.1.11 DCS ELMB for PS-Pack
10.1.2.2.2.2 Link from PS-Pack to H-pT/SSW Crate
10.1.2.2.2.3 H-pT/SSW Crate
10.1.2.2.2.3.1 H-pT Board for wire
10.1.2.2.2.3.2 H-pT Board for strip
10.1.2.2.2.3.3 H-pT ASIC
10.1.2.2.2.3.4 Star Switch Board
10.1.2.2.2.3.5 H-pT/SSW Controller (HSC)
10.1.2.2.2.3.5.1 Primary Protocol ASIC
10.1.2.2.2.3.5.2 DCS ELMB for H-pT/SSW
10.1.2.2.2.4 Link from High Pt Board to Sector Logic
10.1.2.2.2.5 Front-end link from SSW to ROD
10.1.2.2.2.6 Optical Link Patch-Panel for Trigger Signals from H-pT to Sector Logic
10.1.2.2.2.7 Sector Logic Crate
10.1.2.2.2.7.1 Sector Logic Board for Endcap
10.1.2.2.2.7.2 Sector Logic Board for Forward
10.1.2.2.2.7.3 E/FI Signal Receiver and Distributor
10.1.2.2.2.7.4 TTC receiver and distributor
10.1.2.2.2.7.5 Link from Sector Logic Board to SSW
10.1.2.2.2.7.6 Star Switch for Sector Logic
10.1.2.2.2.7.7 Crate Controller for Sector Logic Crate
10.1.2.2.2.8 Link from Sector Logic to MUCTPI
10.1.2.2.2.9 Front-end Link from Sector Logic to ROD
10.1.2.2.2.10 Optical Link Patch-Panel for Readout signals
10.1.2.2.2.11 ROD Crate
10.1.2.2.2.11.1 ROD Board
10.1.2.2.2.11.2 Link from ROD to ROB (S-LINK)
10.1.2.2.2.11.3 Configuration Control Interface (CCI)
10.1.2.2.2.11.4 ROD Crate Processor
10.1.2.2.2.11.5 TTC receiver and distributor
10.1.2.2.2.12 Low Voltage Power Supply for PS-Pack
10.1.2.2.2.13 Low Voltage Power Supply for H-pT/SSW Crate
10.1.2.2.2.14 Common Items
10.1.2.2.3 LVL1 Muon Interface to Central Trigger Processor
10.1.2.2.3.1 MIOCT module
10.1.2.2.3.2 MIROD module
10.1.2.2.3.3 MICTP module
10.1.2.2.3.4 MIBACK active back-plane
10.1.2.2.3.5 Crate
10.1.2.2.3.6 Crate processor
10.1.2.3 LVL1 Central Trigger Logic
10.1.2.3.1 Central Trigger Processor
10.1.2.3.2 ROD-busy module
10.1.2.3.3 Crate
10.1.2.3.4 Crate processor
10.1.2.3.5 Patch panel for CTP inputs
10.1.2.3.6 LVL1 fan-out
10.1.2.4 Timing, Trigger and Control Distribution
10.1.2.4.1 TTCvx
10.1.2.4.2 TTCvi
10.1.2.4.3 TTCx
10.1.2.4.4 TTCmi
10.1.2.4.5 TTCex
10.1.2.4.6 TTCx
10.1.2.4.7 TTCmx
10.1.2.4.8 fibres
10.1.2.4.9 splitters