

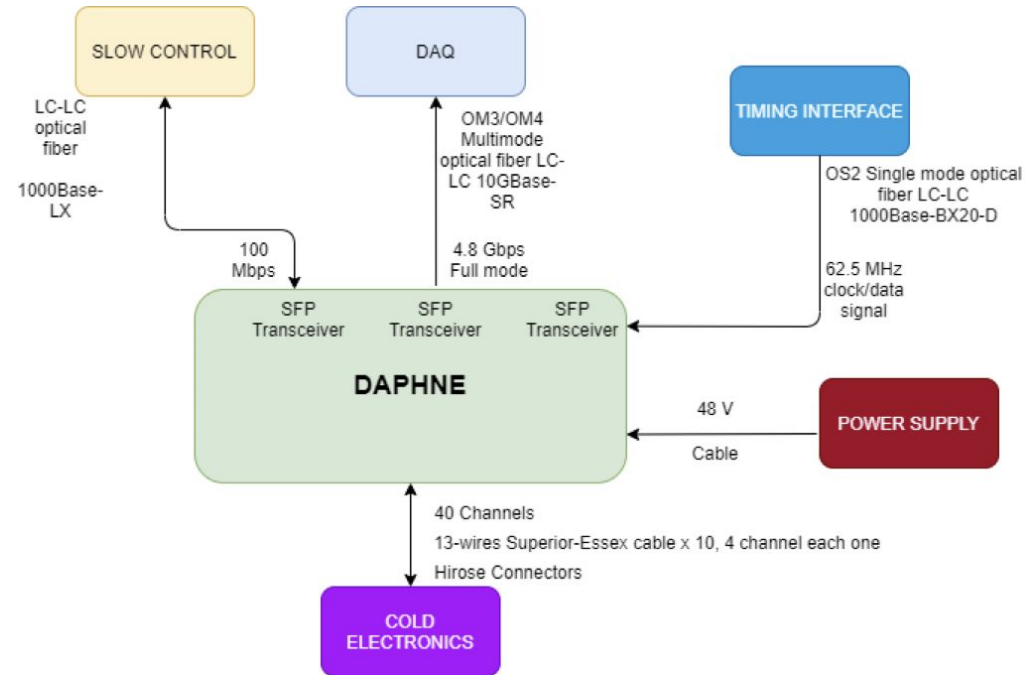
QA/QC plan for warm electronics

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PDS mini workshop
UNICAMP

Hardware Database scheme for DAPHNE

1. QC/QA Database is organizing the structure of the hardware database for the PDS
2. DAPHNE: Detector Electronics for Acquiring PHotons from Neutrinos.
3. 40 Channels, 1 DAPHNE/APA
4. For DAPHNE is proposed a main table per Board
5. Subtable with values for each channel.



Hardware Database scheme for DAPHNE

- Procurement:
 - Link to the BOMs
 - PCB manufacturer
- PCB inspection:
 - Result of inspection
- Assembly
 - Assembled At
 - Assembled Date
 - Assembled By
- Electrical test
 - Tested At
 - Test Date
 - Test By
 - Comments
- Firmware/functional test
 - Tested At
 - Test Date
 - Test By
 - Comments
- Location
 - Current location
 - Arrived date
 - Mon
- Per Channel information
 - Channel ID
 - Interfaces
 - Voltages
 - Trim
 - Offset
 - Bias
 - Current

Database scheme for DAPHNE main table

Field	Type	Parent Table	Comments
PartID	String		Key, Populated Automatically
Serial Number	Integer		Separate from PartID
Assembly Institution	String		
Date/Time Assembled	Time		
Assembled by	String		Person signing off final assembly
Electrical test	CVS table		Table tested values
Firmware Test	CVS table		Table tested values

DAPHNE Channels info

Channel Number	Date	Parent Table	Voltage	Value
1	XX/XX/XX		Trim	
	XX/XX/XX		Offset	
	XX/XX/XX		Bias	
....				