

PIP-II DAQ/XRM Incoming Inspection Traveler

This traveler is to be used to perform an Incoming Inspection of the PIP-II Data Acquisition (DAQ) eXtensible Rack Monitor (XRM) system. The intent is to ensure all Quality Assurance (QA) procedures have been executed before article acceptance.

Utilize the drop-down menus below to fill in the following information.

Vendor Serial Number		Fermilab Asset Number	
SNxxxxxx		123456	
Date of Receipt	Location	Signed by	FNAL ID
10/17/2026	BTE	Name	N12345
Pass	Test	Pass	Test
<input type="checkbox"/>	1. Asset Tag	<input type="checkbox"/>	6. Soak
<input type="checkbox"/>	2. Drop Test	<input type="checkbox"/>	7. PV Scan
<input type="checkbox"/>	3. Form Factor	<input type="checkbox"/>	8. Evaluation
<input type="checkbox"/>	4. Bake in	<input type="checkbox"/>	9. Re-package
<input type="checkbox"/>	5. PV Scan	<input type="checkbox"/>	10. Store
Photos			
Incoming		Outgoing	

Supporting Documentation

1. XRM First Article Acceptance Test Plan
2. XRM General Acceptance Procedure for Production Units
3. XRM Technical Specifications (ED0013500-V2)
4. XRM User Manual from vendor
5. XRM Master Inventory List

General Acceptance Procedure for Production Units

The following steps are to be performed for all units to be accepted by Fermilab.

1. Remove the XRM from its packaging and apply a Fermilab-issued asset tag.
2. Drop the unit from a height of 80mm onto a wooden surface from top and bottom.
3. Install the XRM in the EIA-310 compliant 19" test fixture, and apply power
4. Place the connected XRM in a 40°C environmental chamber for a period of one hour.
5. Load the Fermilab base configuration and perform a preliminary PV scan for all modules.
6. Allow the XRM to 'soak' in the environmental chamber for a period of 48 hours.
7. Perform the Fermilab PV scan for all modules a second time.
8. If the XRM fails any of the above, document the issue and contact vendor support.
9. If the XRM succeeds, remove it from the test fixture and re-package the device.
10. Place the device in a designated location for future installation.