Supported Controls Components

- **Supported CamLink Camera Models**
- **Supported GigE Camera Models**
- **Motion**
  - IMS MDrive Plus MCode, Speed-control, Motion-Control, Step/Direction-Input, WebLink
  - Micronix Piezo Controller/Driver MMC-100 Datasheet, Manual, WebLink
  - PI Piezo controller E-665 Weblink to Manual, manual locally saved, Manual w/ protocol (E-816, grabbed from BNL)
  - PI Piezo controller C-863: Manual w/ protocol (can be daisy chained w/ E-861 which we have, but could not find a manual for)
- **Power Supplies**
- **Vacuum Devices**
- **PLC**
- **ADC - Digitizers**
- **Acromag IO**
- **Controllers**
- **Firewire fiber extender**
- **Lasers**
- **Optical Components**
  - Flippers
    - MFF102
  - Filter Wheel
    - ThorLabs
- **Beam Position Monitor**
  - SLAC IPIMB
- **Laser Power/Energy Meters**
  - LabMax-TOP
  - Scientech Laser Power/Energy Meter Model 365 (Wattmeter)
  - Scientech Model 365 Communications Manual Supplementary
  - Scientech Laser Power/Energy Meter Model 310 (Calorimeter)
- **Pressure Control**
  - Proportionair
- **Temperature Control**
  - Lakeshore (331, 335, 336, 340)
  - Eurotherm
  - Omega
  - Stanford Research Systems PTC 10
- **Calorimeters**
  - Scientech Calorimeter
- **Spectrometers**
  - Ocean Optics USB400
  - Ocean Optics Remora
  - von Hamos Spectrometer
- **Machine Timing Hardware**
  - Event Generator
  - Event Receiver
- **IOC Serial Access**
  - Digi Serial PortServer TS 16 MEI
    - Digi Quick Start Guide
    - CA-261-807-83-C00 IMS Serial Loopback.pdf
  - Moxa Datasheet, Manual, ConfigurationTool, Moxa_Pinout, WebLink
    - Moxa Quick Start Installation Guide
- **Remote Power Management**
  - iBootBar Remote Power Management
  - Leviton SH081-1B1 PDU

Some devices may not be suitable for new designs. Please verify with a controls engineering team member.
• By Manufacturers
  • Scientech
    • Calorimeters
    • Laser Power/Energy Meter

For special needs in control devices contact paier.

**Supported DAQ Components**

• Cameras
  • Adimec Opal 1000: [Manual, Old Manual, Leaflet, CCD spec, Adimec Website]
  • Adimec Opal 1600, 2000, 4000, 8000
  • Adimec Quartz 4A150: [Manual]
  • Pulnix TM-6740CL: [Datasheet, CCD spec, Pulnix Website]
  • 2D Detector for XPP
  • 2D Detector for CXI ("CSPAD")
  • CSPAD 2x2
  • pnCCD
  • Princeton PI-MTE2048 Camera. USB interface preferred (use discouraged because of slow readout and other poor behaviour)
  • Princeton PIXIS Camera. USB interface preferred (use discouraged because of slow readout and other poor behaviour)
  • Timepix Quad: [QTPX-252k spec, ASI Website]
  • FCCD
  • Phasics wavefront sensor
  • OceanOptics
  • Fli camera
  • New camera
  • Hamamatsu ORCA Flash 4.0
  • Rayonix MX 170 HS Specs, Legacy remote mode manual, Rayonix Website, Rayonix Manual
  • Goldeye CL-008 TEC1 Datasheet, Manual, Features-References, Framegrabber_AppNote, WebLink

• SLAC IP1MB 4-channel Charge Amplifier/Peak-Digitizer
• Agilent U1065A 8GHz 10-bit cPCI ADC and U1051A 6-channel cPCI TDC
• Motor position encoder: [SXR SLE Info (Laser Mirror Position Encoder)]
• Encoder readout: US Digital USB4 Website
• GSC 16AI32SSC beam rate 16-bit 16-channel PCIe ADC: [Spec Sheet, Reference Manual, GSC Website]

*Needs for other DAQ components should be discussed with the PCDS group.*