


# Photodiode Amplifier and Controller

DCC:  E1300934

## Description

The photodiode amplifier and controller integrates two dual DC photodiode amplifiers,  D1200543-v1, and EtherCAT readbacks/controls into a single half-width 2U enclosure. Each amplifier has four gain selections. It is primarily intended to read and control the photodiodes mounted onto the arm cavity baffles.

## Specifications

DCC:  E1400264

External photodiode:

- Unamplified, cathode on ground

Connectors:

- 4x TNC input for photodiodes
- 4x BNC output for photodiode readback
- 1x 9-pin D-sub female for differential readbacks of the photodiodes
- 1x 37-pin D-sub female for remote controls (unused)
- 1x 3W3 power connector for  $\pm 24V$
- 1x RJ45 EtherCAT input
- 1x RJ45 EtherCAT output

Indicators:

- Power LED (multiple)

Transimpedance:

- Selectable: 20 K $\Omega$ , 200 K $\Omega$ , 2 M $\Omega$  and 20 M $\Omega$
- Bandwidth: 70Hz

Remote interface:

- EtherCAT

Power:

- $\pm 24VDC/0.5A$  max. on front

Physical:

- 8"(W) x 9"(D) x 3.5"(H) stand-alone enclosure
- Rack-mountable
- Operating temperature: 10°C - 30°C