

AOD RF Driver 100435A



High Power Three Phase RF Driver

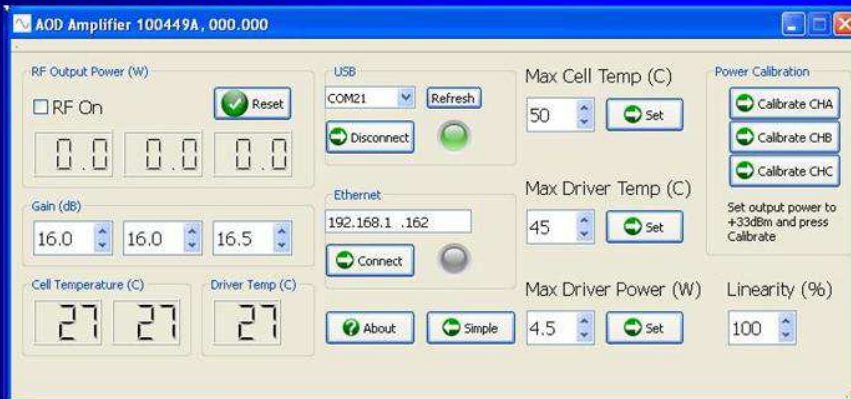
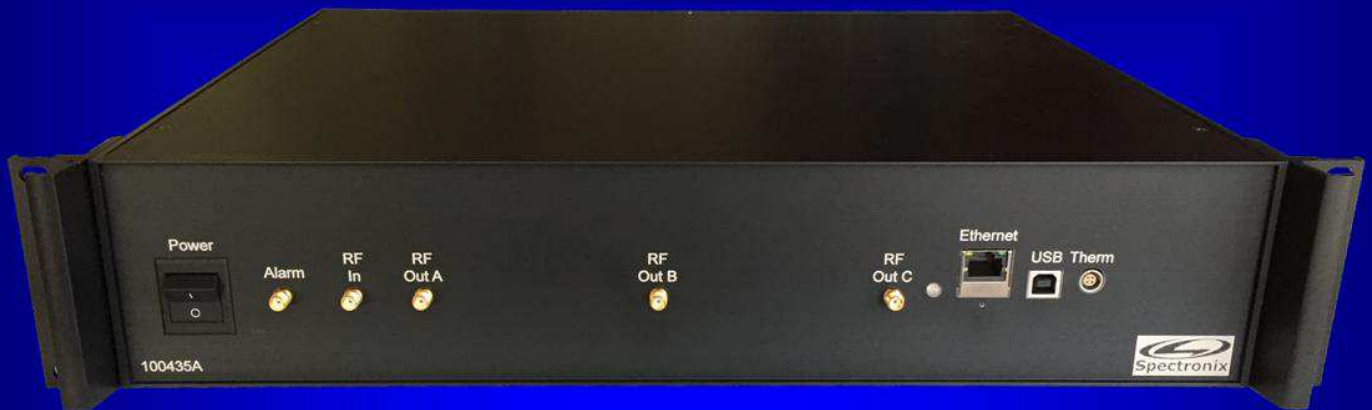
High IP3

200MHz

10W

3 Phase

Ethernet



Features:

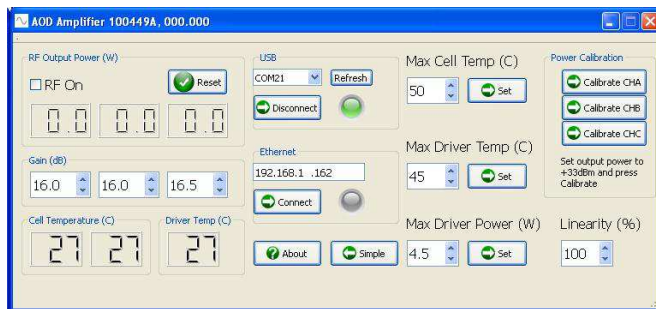
- Phase shifted RF outputs
- 200MHz, 10W per channel
- Adjustable PA linearity and gain
- Temperature / Power Monitor
- Overpower Protection
- USB and Ethernet
- Alarm Output
- 19", 2U Chassis

Applications:

AO Cell Driver

Overview

The Acousto-Optic Deflector (AOD) RF Driver is a three channel, three phase high power driver amplifier intended to drive devices such as the Harris H-902. The driver accepts a single low level RF input and produces three high power phase shifted outputs. The driver features adjustable gain, power monitoring, and programmable automatic protection features. The exceptional linearity and headroom allow the use of multi-tone and complex waveforms with minimal distortion.



Operation

Configuration and control are accomplished using the supplied Windows application and USB or Ethernet connection. Once connected, the operating parameters can be configured. Each output features independent gain control and power monitoring. Should the RF power on any of the three outputs reach the preprogrammed trip level, the RF power will be automatically disabled to protect the connected AOD. Driver temperature and AOD cell temperatures are also continuously monitored and displayed.

Ordering Information

Part Number	Description
100435A	Wide Band AOD Amplifier Assembly

Specifications

Parameter	Units	Typical Specifications
Frequency	MHz	150 to 250
Relative RF output timing (A-B-C)	nS	5, +/- 0.05
RF channel gain	dB	36 (adjustable in 0.5dB steps)
1dB RF compression	dBm	40 ¹
Two tone, third order intercept	dBm	50 ¹
Maximum input power (damage)	dBm	+10
RF input / output impedance	Ohms	50, SMA
Alarm Output	V	3.3 CMOS levels
Computer Interface		USB-2, Ethernet, Windows driver supplied
Power		120VAC, 5A max
Unit Dimension		19", 2U rackmount with mounting ears

1: At a linearity setting of 100%