

## High Power Integrated Laser Controller with Servo



400 mA SILC and 500 mA ILC.

### Features:

- Miniature all in one ECDL controller and locking solution (ILC add-on)
- Fast PI<sup>2</sup>D current servo with lead-lag (>2 MHz), auxiliary PI PZT servo
- Built-in DDS for PDH modulation/de-modulation (0.5-20 MHz)
- Software selected gain, transfer function, actuators, and output range
- Software selected mixer bypass for DC servo setups
- Automated ramps and lock acquisition for atomic references and cavities

Integrated Laser Controller with Servo	AOS-ILCS-P-200
Dimensions (LxWxH)	Compact: 5.4"x2.9"x1.15"
LD current loop filter	PI <sup>2</sup> D (> 2MHz)
PZT loop filter	PI (> 10 kHz)
EOM drive output (DDS)	-10-+15 dBm, 0.5-20 MHz
Monitor outputs (adjustable BW 0.01-20 MHz)	Photodiode, error signal
Power consumption	10 W typical (15 W start)

Software Features (in addition to ILC)	
Lock type select	PDH or DC
Lock actuator select	Current, PZT, both
Laser sweep	Current or PZT
Lock acquisition	Manual or automated
Automated locking/re-locking	Thresholds/peak count