

## Features

- On-board **18-bit ADC** collector
- On-board laser control port
- On-board **TEC** control port
- The **USB2.0** high-speed port
- **USB** port is power

## Application

- Spectrometer
- Control the CCD sensor and data acquisition

ATS3310 is a drive and control circuit specially designed for Hamamatsu's S10420 / S11071 / S11510 series CCD, which can be used to build a high sensitivity spectrometer or to evaluate the performance of Hamamatsu's S10420 / S11071 / S11510 series CCD. The circuit uses 18-bit ADC to sample the CCD signal, USB2.0-HighSpeed for high-speed transmission of spectral data, and specially designed laser control port and TEC cooling control port for laser switching and current adjustment control, TEC cooling control port can be used to switch and adjust the temperature of the CCD's refrigeration circuit to facilitate system integration.

In order to facilitate system integration and rapid software development, ATS3310 is also equipped with a DLL dynamic link library running on the PC platform. Users can easily read CCD signals and control laser modules or TEC modules.



Parameters	Conditions	ATS3310	Unit No
Scan the clock		25k	Hz
ADC resolution (bit depth)		18	bit
The AD collects the noise		4	count
Analog signal input range		0 ~ 4	V
CCD signal read-out noise (p-p)	CCD refrigeration	12	count
Data output interface		USB2.0Expressway	
Supply voltage		DC 4.5~5.5	V
Supply current		360	mA
Save the temperature		-20 ~ 70	°C
Operating temperature		0 ~ 50	°C
Dimensions		50x120.	mm.



