

Mid-IR Spectrometer

ATP8250

Features:

- Spectral Range: 2.5-5 μm or 5.5-11 μm
- Super low noise, CDS circuit;
- Spectral resolution: relate to incident slit size
- IntegrationTime : 1-100ms
- CCD configuration: 256 $\times$ 1 pixel, 25 $\times$ 250 μm
- Power supply: DC 5V;
- ADC bit-depth: 16 bit;
- ADC Sampling Rate: 1MHz;
- Interface: SM905 fiber port or free space input;
- Data output port: Type-c & UART;
- 10 -pins extendable port

Application:

- Biomedical: Breathing Gas, Blood, Urine Analysis
- In-process Control: Petrochemistry, Pharmaceutical Industry

Description:

Mid-IR Spectrometer employs smart size, and it employs 256pixels pyroelectric linear array sensor, all-solid state design, high reliable optical path and sensor installation, improve reliable measure. ATP8250 employs low-noise CCD signal, CDS circuit lead in the industry.

ATP8250 can receive free space light via Type-C or UART port, output scan spectral data.

ATP8250 uses 5VDC power supply, and connect to USB, convenient to integration.

Models	Range	Resolution
ATP8250-5	2.5-5 μm	30 nm
ATP8250-11	5.5-11 μm	50 nm



2 Performance Paramters

ATP8250	
Detector Type	pyroelectric linear array sensor
Full scale range	75 dB
Wavelength Range	2.5-5 μm or 5.5-11 μm
Optical Resolution	30nm or 50 nm
Scan rate	10-1000 Hz
Output Interface	Type-C or UART
ADC bit-depth	16 bit
Power Supply	DC 4.5 to 5.5 V (type @5V)
Working Current	200mA @Typ.
Storage Temp.	-15°C-+45°C
Operating Temp.	-10-40°C
Working Humidity	< 90%RH
Dimension	60×40×32 mm ³
Weight	0.2 kg