

Model:UT-5508

8-channel analog data acquisition module

Datasheet



UTEK TECHNOLOGY (SHENZHEN) CO., LTD.

Add: Floor 8-10, Building 7, Skyworth Innovation Valley, No. 8, Tangtou No.1 Road, Shiyan Street, Shiyan Old Street, Bao 'an District, Shenzhen

Tel: +86-755-81202008

Fax: +86-755-27886083

Http: www.uotek.com

1. Overview

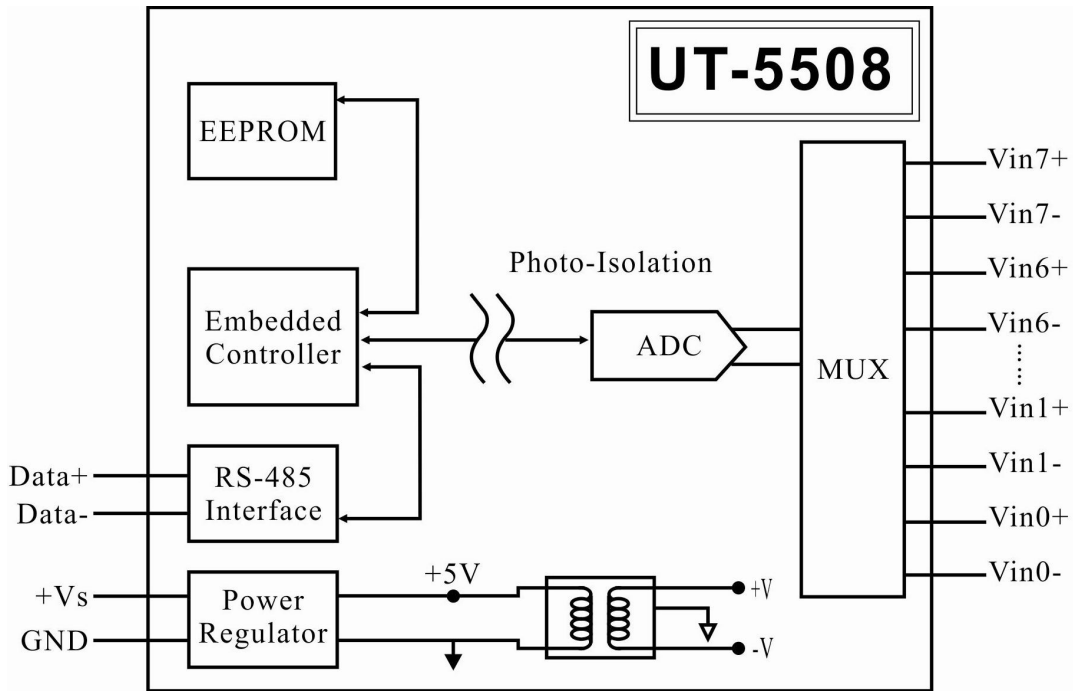
UT-5508 module is used to collect analog input, It is designed with high industrial standard, using automotive grade MCU, with 8 channels of analog differential input, each channel has independent settable 8 range gear, internal hardware band pass filtering and software filtering processing of the signal, analog resolution up to 24 bits; RS485 interface, support MODBUS-RTU communication protocol; The products are suitable for industrial control, remote monitoring and data acquisition, power communication, rail transportation, ship electronics, machinery and heavy industry, electronic product manufacturing, etc.

The UT-5508 is a remote data acquisition module that can be remotely controlled by a series of commands via the UTBUS protocol. The baud rate is software settable and the transmission rate is selectable up to 115.2K. The UT-5508 also supports Modbus RTU protocol.

2. Technical Parameters

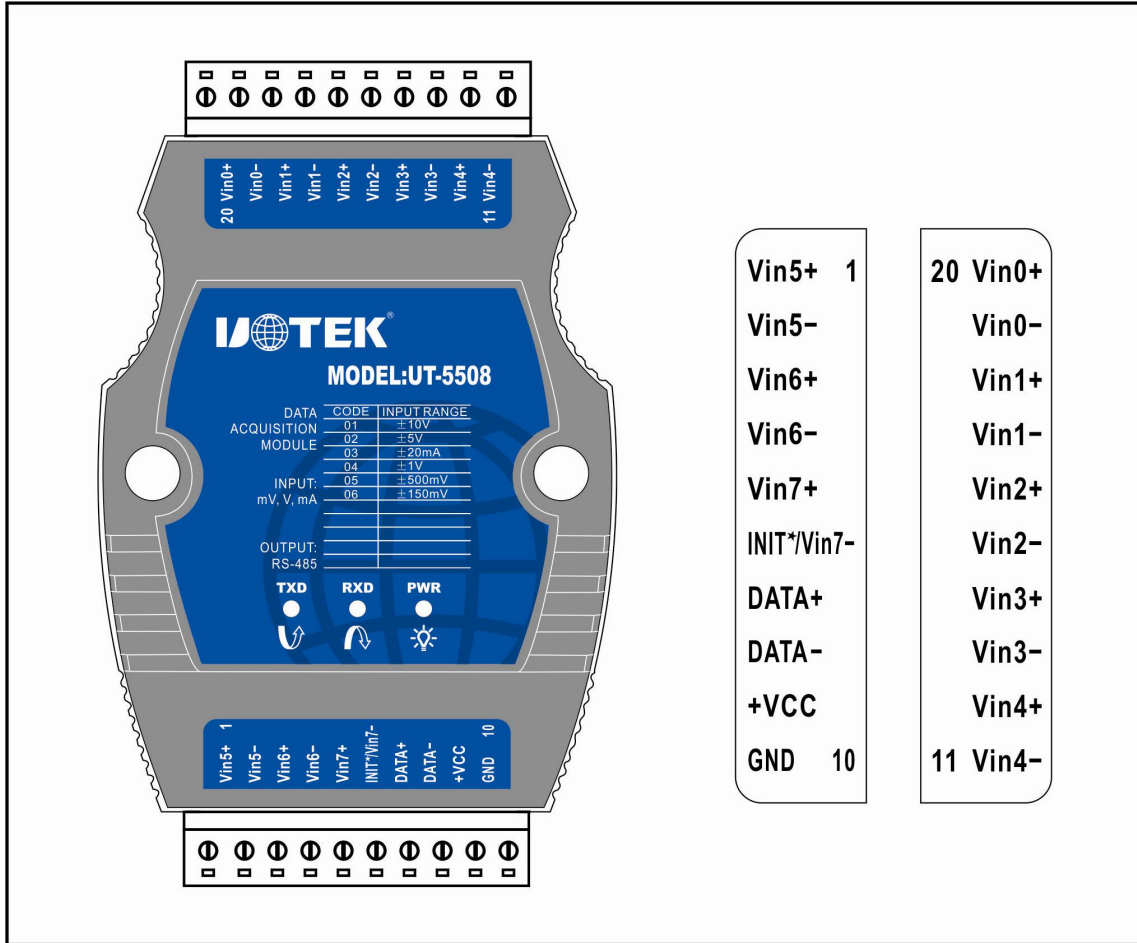
- Input channel: 8-CH differential(2-CH single end mode), jumper wire selection
- Analog input type: mV, V, mA(With 125 ohms resistance)
- Sampling rate: 10 samples/s
- Bandwidth: 15.7 Hz
- Precision: $\pm 0.1\%$
- Zero drift: $20\mu\text{V}/^\circ\text{C}$
- Range drift: $25\text{ppm}/^\circ\text{C}$
- Input impedance: 20M Ohms
- Operating temperature: $-25 \sim 75^\circ\text{C}$
- Storage temperature: $-30 \sim 75^\circ\text{C}$
- Relative humidity: 5 ~ 95%
- Isolation: 2,500VDC
- Supply power
 - Input: 12 ~ 30VDC
 - Power consumption: 1.3W

3. Hardware definition and initial setup

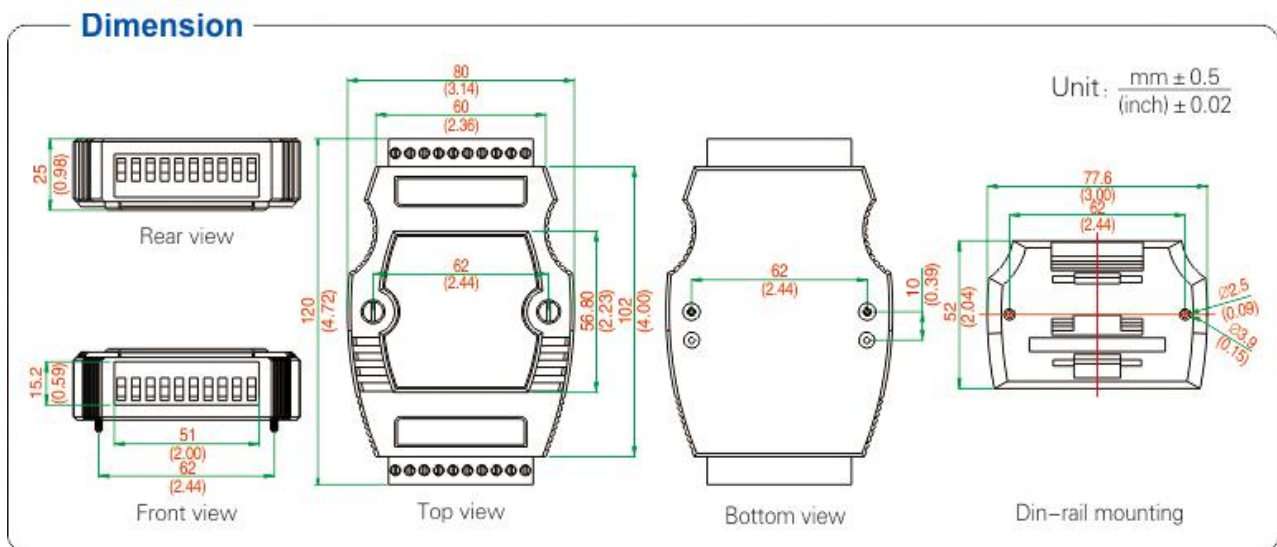


4. Product View (Appearance)





6. Structure Dimension



7. Ordering Information

Model	Signal/ Interface			Protection level	Baud rate	Operating Environment			Power	
	RS232/485	Analog input	Analog output			Temperature		Humidity		
	Terminal block			RS232/485		-25~70 °C	-40~85 °C	5~95%	plug and play	External power
UT-5508	√	√		600W Surge	1200bps~115200bps	√		√		9~36VDC