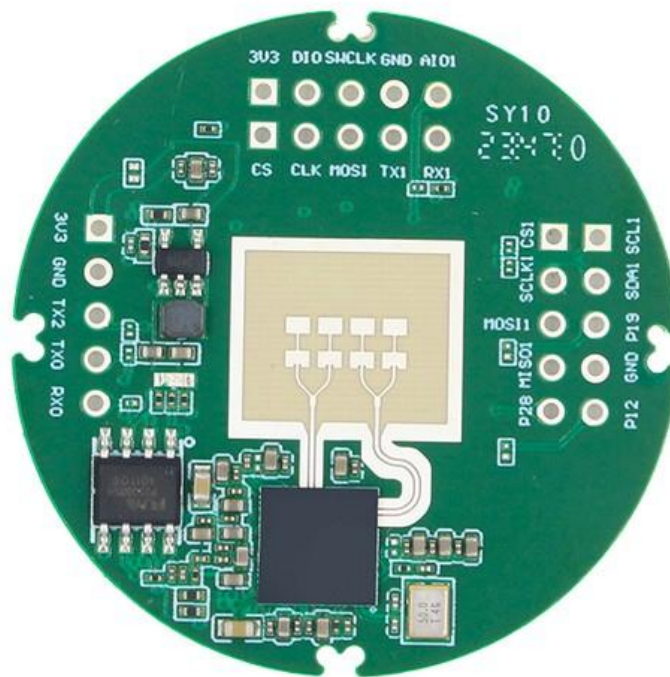


XM7981

Circular 79G radar liquid level sensor module

User Manual

File Version: V24.10.29

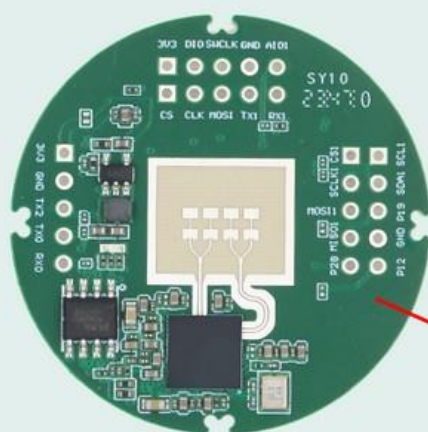


XM7981 using the standard ,easy access to PLC, DCS and other instruments or systems for monitoring liquid level radar state quantities.The internal use of high-precision sensing core and related devices to ensure high reliability and excellent long-term stability,can be customized RS232,RS485,CAN,4-20mA,DC0~5V\10V,ZIGBEE,Lora,WIFI,GPRS and other output methods.

Technical Parameters

Technical parameter	Parameter value
Brand	XUNCHIP
Measurement range	0-15m (optional)
Measurement accuracy	$\pm 2\text{mm}$
Measurement frequency	79~81G
Antenna Beam	$\pm 2.75^\circ$
Measurement blind spot	$\pm 0.06\text{m}$
Sampling period	200ms
Communication Interface	TTL
Default baud rate	115200 8 n 1
Power	DC3.3V 1A
Running temperature	-30~85℃
Working humidity	5%RH~90%RH

Product Size



Ø39mm

Thickness 2mm

Note: Manual measurement, please refer to the actual product

software to test

Data parsing

Default baud rate: 115200,8,N,1

The device will actively upload a string of data in about 200ms including FFT analysis data, which is displayed

Distance data:

```
01 9F 67 20 00 2D 09 02 D5 FE FF FF DA FE FF FF 16 01 00 00 47 03 00
00FF C8 00 00 00 7C 00 00 00 5E 00 00 00 5D 00 00 00 C5 FF FF FF 70
FF FF FF FB FF FF FF 5F ...
```

There will be ASCII strings:

```
DISTANCE IS 1.720326 M      I.E. 1.720326 M
DISTANCE IS 1.588301 M      I.E. 1.588301 METERS
```

...

Data description: DISTANCE IS (lowercase) is the identifier, and the last 8 characters are the distance data.

The ending character is M.

In the case of broken wires, wire the wires as shown in the figure. If the product itself has no leads, the core color is for reference.

How to use software?

Data parsing

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How to use?

Water level detection radar is mainly used in hydrological monitoring, urban pipe network, and water level measurement in the case of fire water tank. It supports UART output, plug and play, and can be flexibly applied to different intelligent scenarios.



Hydrological
monitoring



port



Urban pipe
network



Fire water tank

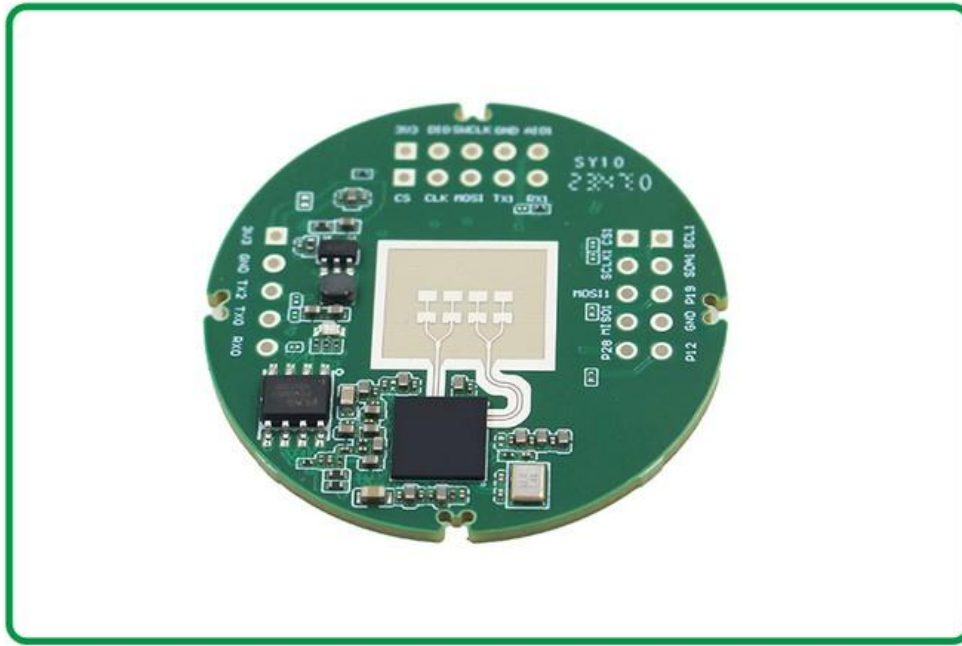


Sewer networks



reservoir

Product List



Radar module quantity: 1 pcs

Disclaimer

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Contact Us

Brand: XUNCHIP

Address: Room 208, Building 8, No. 215, Nandong Road, Baoshan District, Shanghai, Xinxin Brand Business Department

Chinese site: <http://www.xunchip.com>

International site: <http://www.xunchip.com>

SKYPE: soobuu

E-mail: sale@sonbest.com

Tel: 86-021-51083595 / 66862055 / 66862075 / 66861077