

N970WA(T2)



7" Mobile Data Terminal with Allwinner T2

Features

- 7" WVGA LCD with 3 programmable hot keys
- Android 4.4
- Supports analog video input 4*CVBS input, 1*CVBS output, 1*CANBUS, 2*RS232, 1*RS485, 1*USB Host, 1*USB OTG, 3*DI/2*DO
- Supports WCDMA/HSDPA/GPRS, GPS, WIFI and BT communications
- 8V-32V / No battery
- Fanless and ruggedized iron chassis, able to work under -10~60°C

Introduction

N970WA(T2) is N970WA upgrade version, It use Allwinner T2 chip, and increase CANBUS, CVBS output functions and so on.

Specifications

Processor & Operating System

CPU ARM Cortex-A7 Dual Core 1GHz, Allwinner T2

Operating System Android 4.4

Memory

DDR3 1GB

Nand Flash 4GB

Display

7 inch WVGA 800*480

LED backlight, wide type

350 nits

Keypad & Buttons

2 function keys (support external keyboard)

1 power button

1 LED

Interface ports

RS232 serial ports 4

RS485 1

CVBS Input 4

CVBS Output 1

CANBUS 1

USB ports 2 x 2.0 USB Host

1 x 2.0 USB Device

Accessible Expansion Slots

Internal/External SD socket 1 x Micro SD and 1 x External SD, support up to 32G

Internal SIM card GSM communication

I/O port

Digital input x 3 line

Digital output x 2 line

Audio

Speaker 2W 8ohm, Size:40mm

EAR & MIC

GPS

u-blox GPS module

56 channels

Sensitivity -163 dBm

GSM/GPRS/WCDMA

QUECTEL UC15, 6-bands

Sensitivity -106 dBm

Wireless Communication

Wi-Fi RTL8723AS –VAU

Bluetooth(optional) Class 2, 2.0 (GAP/SPP)

Antenna

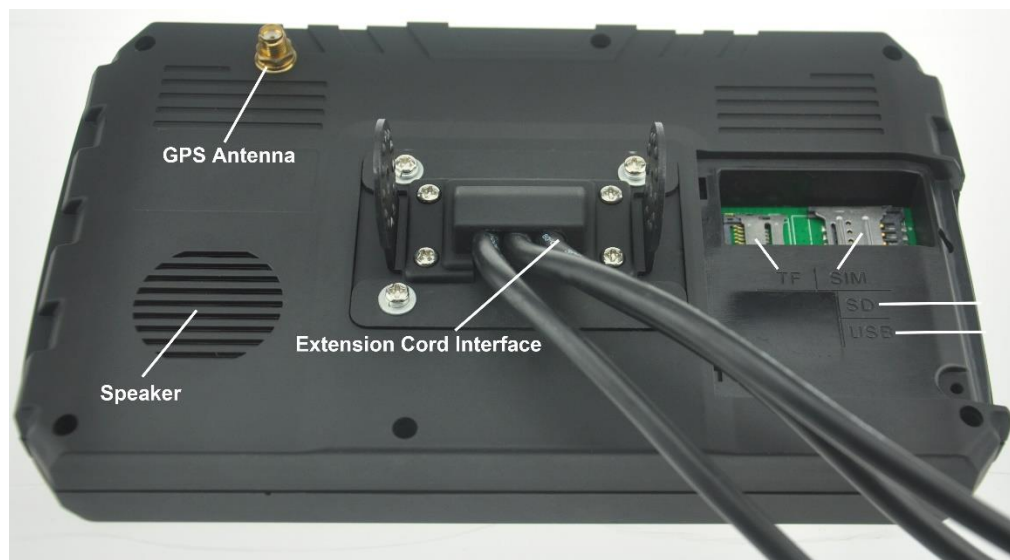
GPS Antenna Internal / External(optional)

GSM Antenna Internal

Physical Characteristics

Size	200*118*28mm
Weight	1.5 kg
Environment	
Main Power	8~32V
Built-in Battery(Optional)	Polymer Li-Ion Battery 3.7V@1200mAH
Operating Temperature	-10°C to +60°C
Humidity	5% - 90%

I/O Connector



Pin Assignment

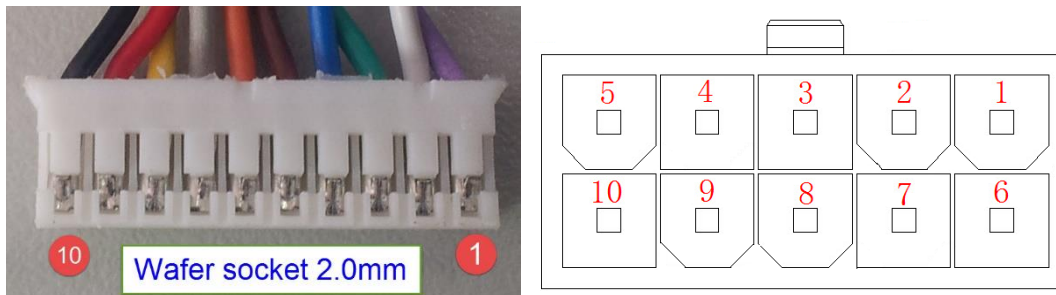
1. Cable Define

2. Pin port Define

2.1 10PIN function define

PIN NO. (PIC 1)	Function Define	Line Spec.	Relevant Terminal
1	UART1_RXD0, ttyS0 receive	26AWG 300mm	
2	UART1_TXD0, ttyS0 transmit	26AWG 300mm	
3	UART1_RXD1, ttyS1 receive	26AWG 300mm	
4	UART1_TXD1, ttyS1 transmit	26AWG 300mm	
5	GND		
6	NC	26AWG 300mm	
7	NC		
8	CANH		
9	CANL		
10	GND	26AWG 300mm	Terminals share GND

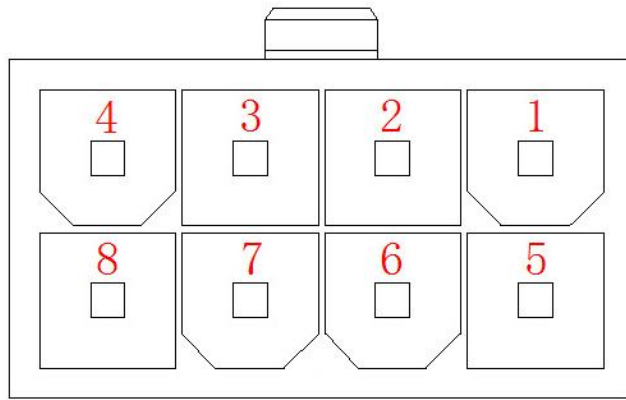
PIC 1: 10PIN of 5557 female



2.2 8PIN function define

PIN NO. (PIC 1)	Function Define	Line Spec.	Relevant Terminal
1	CVBS1, CVBS input	26AWG 300mm	
2	CVBS2, CVBS input	26AWG 300mm	Terminals share GND
3	CVBS3, CVBS input	26AWG 300mm	
4	CVBS4, CVBS input	24AWG 300mm	
5	GND	26AWG 300mm	Terminals share GND
6	NC		
7	UART_RXD3, ttyS3 receive		
8	UART_TXD3, ttyS3 transmit	24AWG 300mm	

PIC 1: 8PIN of 5557 female



2.3 6PIN function define

PIN NO. (PIC 1)	Function Define	Line Spec.	Relevant Terminal
1	Car_14V_IN, car battery positive input	22AWG 300mm	
2	Car ACC, ACC input	26AWG 300mm	
3	GND,	22AWG 300mm	GND share, BLACK line
4	INPUT_2, detection input	26AWG 300mm	
5	INPUT_3, detection input	26AWG 300mm	
6	INPUT_1, detection input	26AWG 300mm	

PIC 1: 6PIN of 5557 female

