



7" Mobile Data Terminal with CSR A6

Features

- 7" WVGA LCD with 4 programmable hot keys
- WinCE6.0
- Supports analog video input & 1*CANBUS, 2*RS232, 1*RS485, 1*RS422, 1*USB Host / 1*USB Device
- Supports CDMA and GPS communications
- 6V-32V / No battery
- Fanless and ruggedized iron chassis, able to work under -20~80°C

Introduction

T1 is an all-in-one 7" mobile data terminal with touchscreen, and 800 MHz ARM Cortex A6 CPU Core processor. The system is high performing with network services using easily with CDMA/ HSDPA/ GPRS/ GPS communications. Focused on the automotive market, T1 is designed with vehicle power, ensuring the system is more stable during engine starts. Die casting and a ruggedized chassis not only provide more capabilities in a wide range of temperatures (-20 ~ 80° C), but T1 is also suitable for harsh environments subject to shock and vibration.

Specifications

Processor & Operating System	
CPU	ARM Cortex-A9 Core 800MHz, CSR A6
Operating System	WinCE 6.0
Memory	
DDR3	512MB
Nand Flash	4GB
Display	
	7 inch WVGA 800*480
	LED backlight, wide type
	350 nits
Keypad & Buttons	
	4 function keys (support external keyboard)
Interface ports	
RS232 serial ports	2
RS485	1

RS422(optional)	1
CAN BUS	V2.0B
USB ports	1 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	1W 8ohm, Size:40mm
	EAR & MIC
	Support hand-microphone connectors

GPS

u-blox GPS module
56 channels
Sensitivity -163 dBm

GSM/GPRS/WCDMA

QUECTEL GC65/UC15, 6-bands
Sensitivity -106 dBm

Antenna

GPS Antenna	Internal / External(optional)
GSM Antenna	Internal

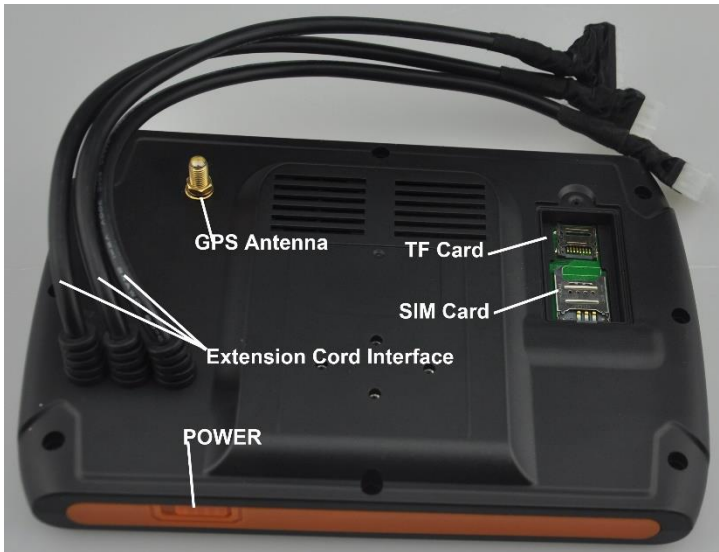
Physical Characteristics

Size	215*145*30mm
Weight	1 kg

Environment

Main Power	6~32V
Battery	No battery
Operating Temperature	-20°C to +80°C
Humidity	5% - 90%

I/O Connector





Pin Assignment

- 10P Extension Cord, 5557 Female define

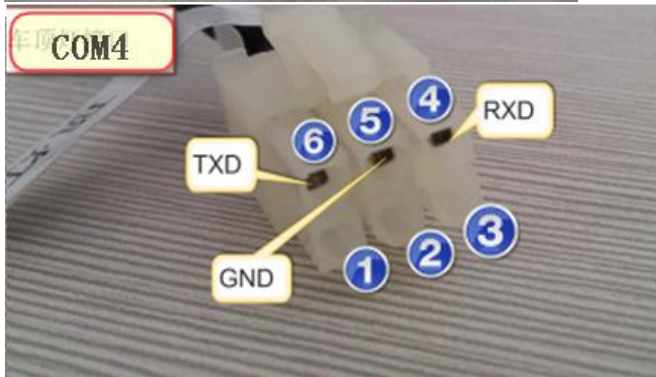


1 PIC A

5557 FEMALE(1 PIC A)	description	Remark
1	Transmit (UART1_TXD1)	COM2
2	Receive (UART1_RXD1)	COM2
3	GND	
4	RS485 B/(TXD0)	COM5
5	Transmit (UART1_TXD2)	COM4
6	Receive (UART1_RXD2)	COM4
7	RS485 A/(RXD0)	COM5

8	GND	
9	CAN Channel H	
10	CAN Channel L	

1.1 COM4 232 interface define



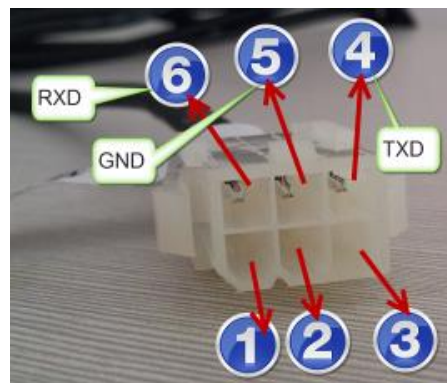
1 PIC B

6Pin interface define

6pin slot (1 PIC B)	Name	10P 5557 (1 PIC A)	Line Spec.
1	NC		
2	NC		
3	NC		
4	Receive (UART1_RXD2)-COM4 RXD, Connect with TXD of toplight	5	26AWG 1.2m
5	GND	3	26AWG 1.2m
6	Transmit (UART1_TXD2)-COM4 TXD, Connect with RXD of toplight	6	26AWG 1.2m

Note: In XI'AN version, the UART is RS422.

1.2 COM2 232 interface define

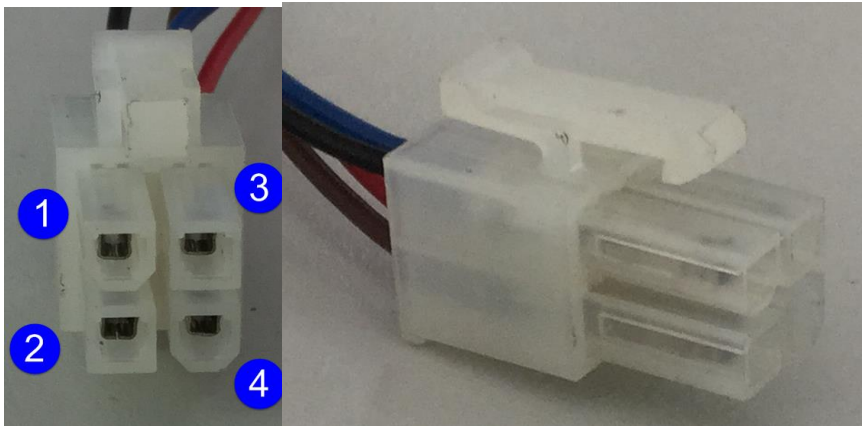


1 PIC C

Taximeter 6Pin interface define

6pin slot(1 PIC C)	Name	10P 5557 Female (1 PIC A)	Line Spec.
1	NC		
2	NC		
3	NC		
4	Transmit (UART1_ TXD1)- COM2 TXD, Connect with RXD of the taximeter	1	26AWG 1.2m
5	GND	3	26AWG 1.2m
6	Receive (UART1_ RXD1)- COM2 RXD, Connect with TXD of the taximeter	2	26AWG 1.2m

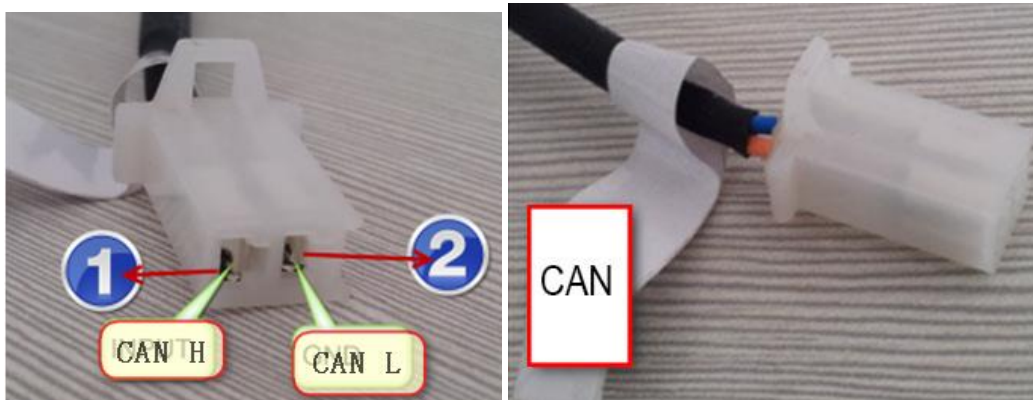
1.3 COM5 485(232) interface define



1 PIC D

4pin 5557 male (1 PIC D)	Name	10P 5557 Female (1 PIC A)	Line Spec.
1	RS485 A/RXD_0(COM5)	7	26AWG 1.2m
2	GND	8	26AWG 1.2m
3	NC		NC
4	RS485 B/TXD_0(COM5)	4	26AWG 1.2m

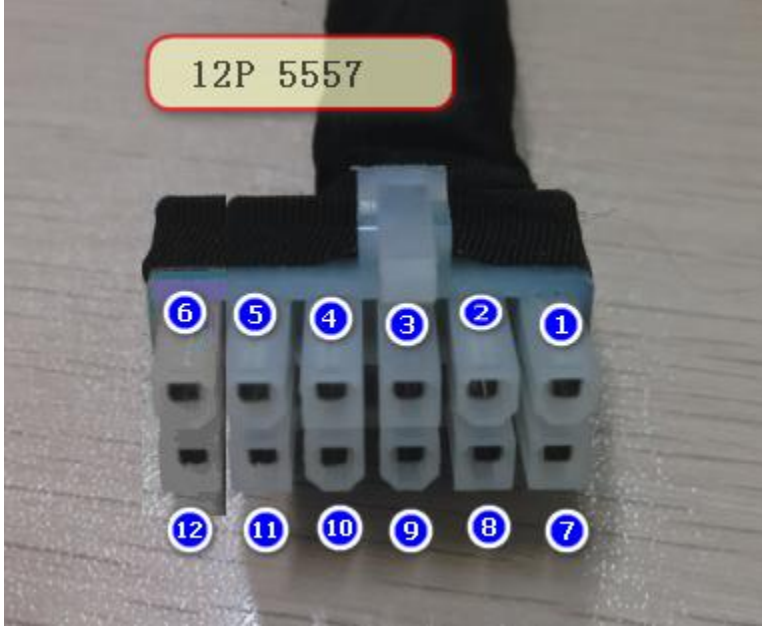
1.4 CAN interface define



1 PIC E

4pin slot (1 PIC E)	Name	10P 5557 Female (1 PIC E)	Line spec
1	CAN BUS H	9	26AWG 1.2m
2	CAN BUS L	10	26AWG 1.2m

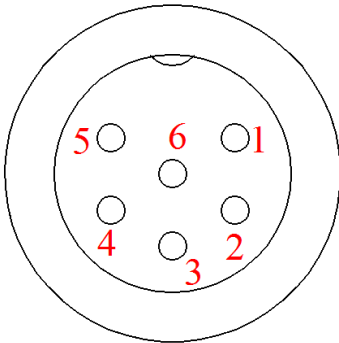
2. 12P Extension cord interface define



2 PIC A

5557 Female(2 PIC A)	description	Remark
1	RS422_Y/(UART_TXD0)	COM7
2	RS422_Z/(UART_RXD0)	COM7
3	RS422_B	COM7
4	RS422_A	COM7
5	GND	
6	EXT_HPR/(12V POWER INPUT)	
7	EXT_HPL	
8	External Audio Input	
9	CVBS1	
10	OUTPUT1	5V output
11	OUTPUT0	5V output
12	GND	

2.1 6 PIN Airline Male,RS422 interface define:



2 PIC B

6pin airline (2 PIC B)	Name	12P 5557 Female (2 PIC A)	Line Spec.
1	DVR 12V power input to PND(12V Power Input)	6	22AWG 1.2m
2	RS422 A	4	26AWG 1.2m
3	RS422 B	3	26AWG 1.2m
4	RS422 Z	2	26AWG 1.2m

5	RS422 Y	1	26AWG 1.2m
6	GND	5	26AWG 1.2m

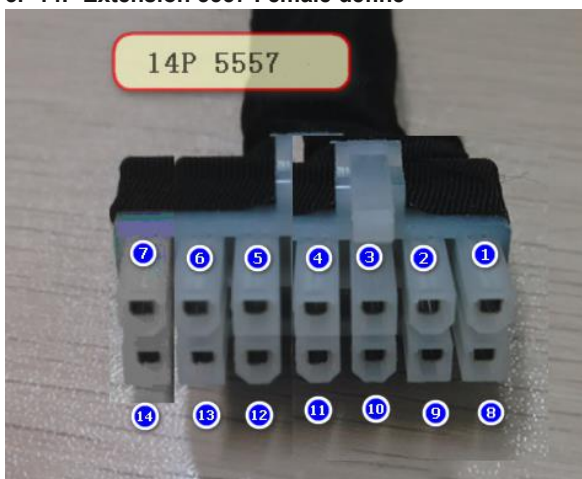
2.2 8P Airline Male interface define



2 PIC C

8pin airline male(2 PIC C)	Name	12P 5557 female (2 PIC A)	Line Spec.
1	GND	5	masking
2	External audio signal input(X_SPP)	8	26AWG 1.2m (masking)
3	GND	5	26AWG 1.2m
4	L output audio signal to speaker(EXT_HPL)	7	26AWG 1.2m (masking)
5	OUTPUT1	10	26AWG 1.2m
6	OUTPUT0	11	26AWG 1.2m
7	CVBS	9	26AWG 1.2m (masking)
8	GND	12	masking

3. 14P Extension 5557 Female define

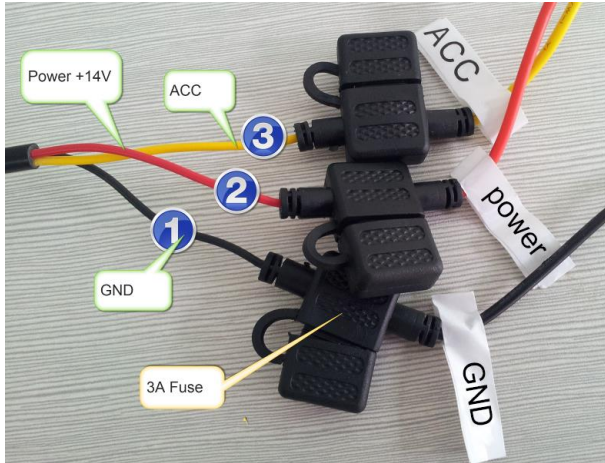


3 PIC A

5557 Female(3 PIC A)	Description	Remark
1	Car_14V_IN	
2	ACC Input (Car_ACC)	
3	Car_GND	

4	Input1	
5	Input2	
6	GND	
7	SYSTEM 3.3V output	
8	MIC_INT	
9	C_SW_INT	
10	X_MICIN1M	
11	X_MICIN1P	
12	GND	
13	Input3	
14	KEY_1_EXT	

3.1 Power Input interface



3 PIC B

NO.(3 PIC B)	Name	14P 5557 Female (4 PIC A)	Line Spec.
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1	GND	3	18AWG 1.5m with 3A Fuse+0.3m
2	NC		NC
3	Connect with car battery ACC	2	18AWG 1.5m with 3A Fuse+0.3m