InDTU 332 Series

Rugged Industrial Serial to GPRS Digital Terminal Unit/Modem

- **INDUSTRIAL** design:
  Wide Operation Termperature: -25-70℃
  Power Input: 5-35V DC with Industrial Terminal
  Capable in harsh EMC conditions
- **COMPACT DESIGN,** easy to install;
- **LOW CONSUMPTION:** 0.15W(Standby), 0.54w (Operation);
- **SUPPORT INDUSTRIAL DATA PROTOCOLS:**
  IEC 101 to 104, ModBus RTU to TCP); Transparent TCP; Virtual COM;
- **DUAL SERIAL INTERFACES;**
- Support **CENTRALIZED MANAGE PLATFORM**: Device Manager Platform;

Overview

The InDTU 332 Series of rugged industrial quad-band GSM/GPRS digital terminal units (DTU) are designed to transmit serial data over GSM/ GPRS mobile networks. The modems are light-weighted, compact-designed modems combined with rich features of high performance, high security, and low power consumption. And they bases on professional industrial chip design capable to work robustly in harsh outdoor circumstances, for example, wide operation temperature ranging from -25℃ to 70℃, wide range power input from 5V to 35V and strict EMC conditions. The modems can support several management tools include handheld configuration tool, Device Manager, InAdmin remote configuration tool, which significantly reduce the maintenance and installation cost for customers. InDTU 332 is well proven product approved by high end customers including Siemens, Schneider Electric, China State Grid and etc. And it is compliant with smart grid industrial DL/T 721-2000 Standard of tele-control in Power Grid automation system.

Specification

Wireless Network Interface

Quad-band GSM/GPRS: 850/900/1800/1900 MHz

Support Private Network: APN

Authentication Method: CHAP/PAP

SIM Card: 3V, flip SIM card, Anti-dismantlement.

Industrial Serial Interface

Serial ports: 2 ports (3.81mm industrial terminal pluggable blocks)

Port 1: RS-232/RS-485 for data transmission and configuration;

Port 2: RS-232 only for configuration;

Baud Rate: 1200bps to 115200bps

Support industrial data protocols:

IEC 101 to 104, MODBOS RTU to TCP; Transparent TCP; Virtual COM;

Manage and Configure

Port	WAN	Port 1	Port 2
Config Method	1. TELNET 2. Config Tool	Config Tool	Config Tool
Batch Configuration	Device Manager 3.0 (OVDP)		

Device Power Consumption

Standby: <12mA@12V Operation: <45mA@12V

Start up: <100mA@12V Peak: <100mA@12V

Operation Environment

Temperature: operation: -20℃~70℃; Storage: -40℃~85℃

Humidity: 5% - 95%, non-condensing

Protection Level: IP30

Power Input: 5 to 35V DC with Industrial Terminal

EMC Features

ESD: EN61000-4-2,level 4

Surge Protection: EN61000-4-5,Level 3

EFT: EN61000-4-4,Level 4

Radiated, radio-frequency, electromagnetic field: EN61000-4-3, Level 4

Immunity:: EN61000-4-6,Level 4

Oscillatory Wave Immunity: EN61000-4-12,Level 4

Variation Magnetic Field Immunity: EN61000-4-8, Level 4

Anti-Vibration: IEC60068-2-27

Drop: IEC60068-2-23

Network Operation Stable Service:

With Built-in hardware watchdog, operation disaster self-recovery

PPP link detection disaster self-recovery

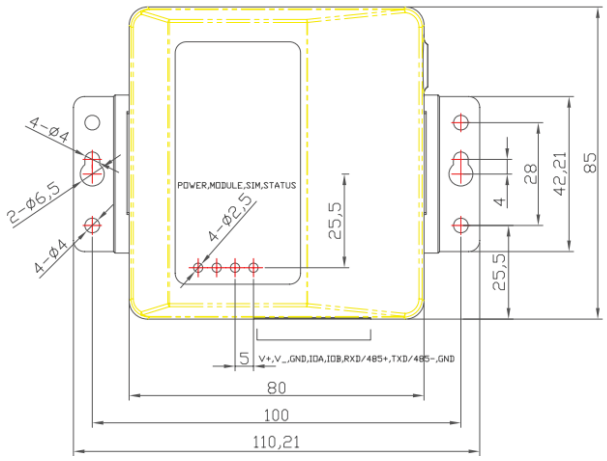
Professional upgrade mechanism, assure upgrade safety

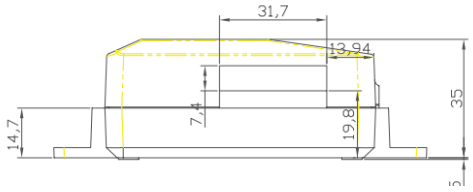
Warranty:

Warranty Period: 3 years

Dimensions:

Standard Modem:





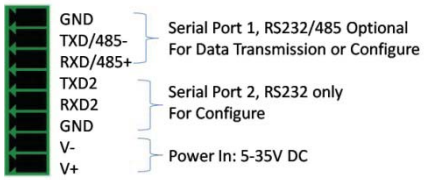
Structure: Housing: Plastic

Dimension: 110mmX85mmX35mm

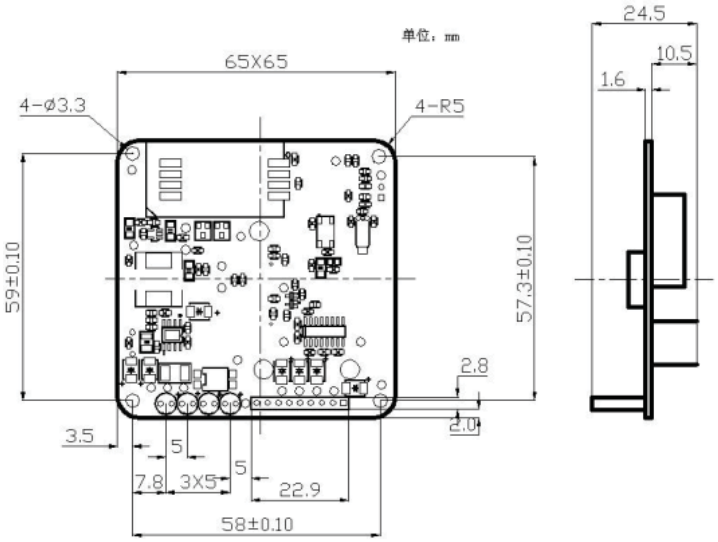
Gross Weight: 120g

Industrial Terminal:

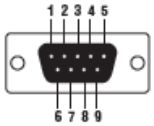
Power Input & Dual Serial Interfaces



Embedded Modem:



DB9 female RS-232 port



PIN	RS-232
1	DCD
2	TxD
3	RxD
4	DSR
5	GND
6	DTR
7	CTS
8	RTS

Order Information

Available Models

InDTU 332 GS55-232: Quad Band RS232 to GSM/GPRS modem

InDTU 332 GS55-485: Quad Band RS485 to GSM/GPRS modem

InDTU 332 Embedded GS55-232: Quad Band RS232 to GSM/GPRS modem

InDTU 332 Embedded GS55-485: Quad Band RS485 to GSM/GPRS modem