

VPD-170-IRT

IR Temperature data concentrator

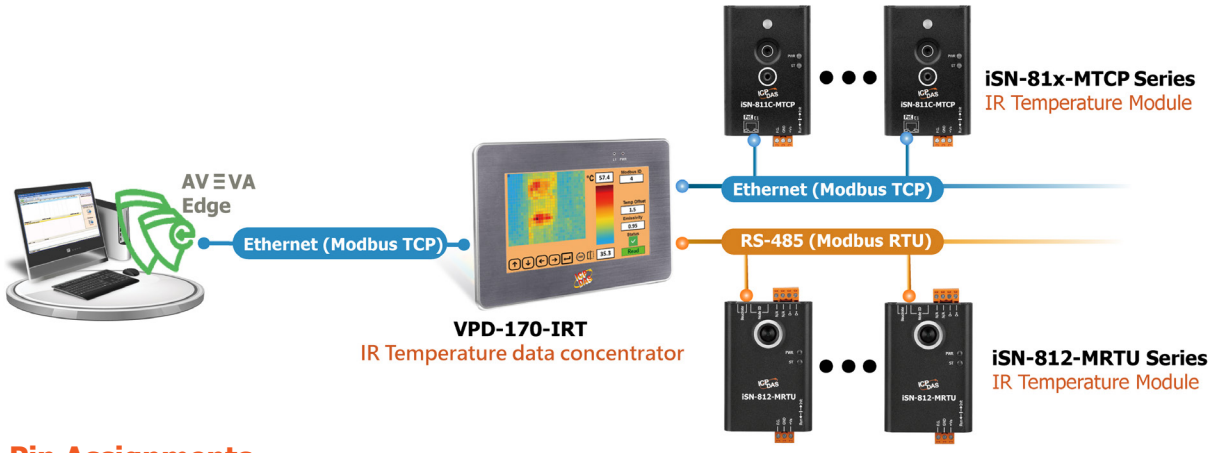
Features

- High-resolution color touch screen
- Front Panel: IP65 Waterproof
- Provide setting Temperature threshold value function
- 9 Signal Relay Output channels for Alarm
- Provide Thermography
- Connect up to 31 iSN-81x-MRTU series module
- Support Modbus TCP/RTU protocol

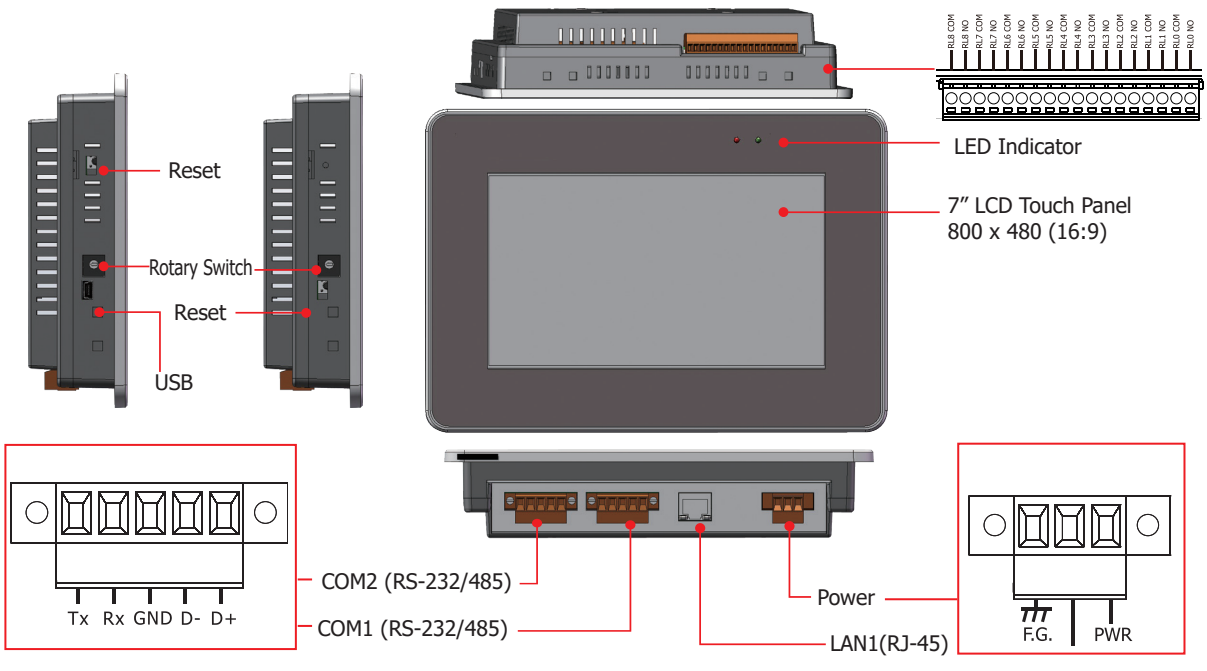
Introduction

The VPD-170-IRT is a data concentrator with user interface designed for iSN-81x infrared temperature sensing modules. VPD-170-IRT supports up to 8 Modbus TCP Client connections, allowing remote monitoring hosts to connect to the concentrator via Ethernet, and accessing the temperature data of multiple iSN-81x series modules at once. From the VPD-170-IRT's touch screen, users can configure the functions of the iSN-81x series modules and the concentrator itself, as well as instantly see the temperature and thermal image of the measured object. Through the VPD-170-IRT temperature data concentrator and Ethernet convenient connection and communication ability, users can quickly set up remote monitoring system and centralized management of temperature data.

Applications



Pin Assignments



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System Specifications

Main Unit	
CPU	32-bit RISC CPU
Storage	64 MB SDRAM/64 MB Flash
Real Time Clock	Yes
Display	
Type	LCD 7” TFT (Resolution 800 x 480 , 65535 colors),defective pixels <= 3
Backlight Life	20,000 hours
Brightness	400 cd/m2
Touch Panel	Yes
LED Indicators	
Status	2 LED
Relay Output	
Channels	9
Type	Signal Relay (Form A)
Contact Material	Silver Nickel, Gold-covered
Contact Rating	2 A @ 30 VDC 0.24 A @ 220 VDC 0.25 A @ 250 VAC
Operate Time	3 ms (typical)
Release Time	4 ms (typical)
Electrical Endurance	2 x 10^5 ops.
Mechanical Endurance	10^8 ops.
Power on Value	Yes
Safe Value	Yes
COM Ports	
Ports	2 x RS-232 (3-pin) or RS-485 (including Self-Tuner) ;2500 VDC isolated
Protocol	Modbus RTU
HMI	
Buzzer	Yes
Rotary Switch	Yes
Rubber Keypad	No
Reset Button	Yes
Ethernet	
Ports	RJ-45 x 1, 10/100 Base-TX
Protocol	Modbus TCP
USB	
Specification	USB 1.1 Client (Firmware updates only)
Connector	Mini-B
Power	
Consumption	3.6 W
Powered from PoE	IEEE 802.3af, Class1 (48 V)
Powered from Terminal Block	+12 ~ 48 VDC
Mechanical	
Dimensions (mm)	217 mm x 153 mm x 33 mm
Installation	Wall Mounting
Ingress Protection Rating	Front Panel: NEMA 4 /IP65
Environment	
Operating Temperature	-10 ~ +60°C
Storage Temperature	-20 ~ +70°C
Humidity	10 ~ 90% RH, Non-condensing

Ordering Information

VPD-170-IRT CR	IR Temperature data concentrator, 2 x RS-232/RS-485, Ethernet (PoE) (RoHS)

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