



## VPD-170-IRT

IR Temperature data concentrator

### Features

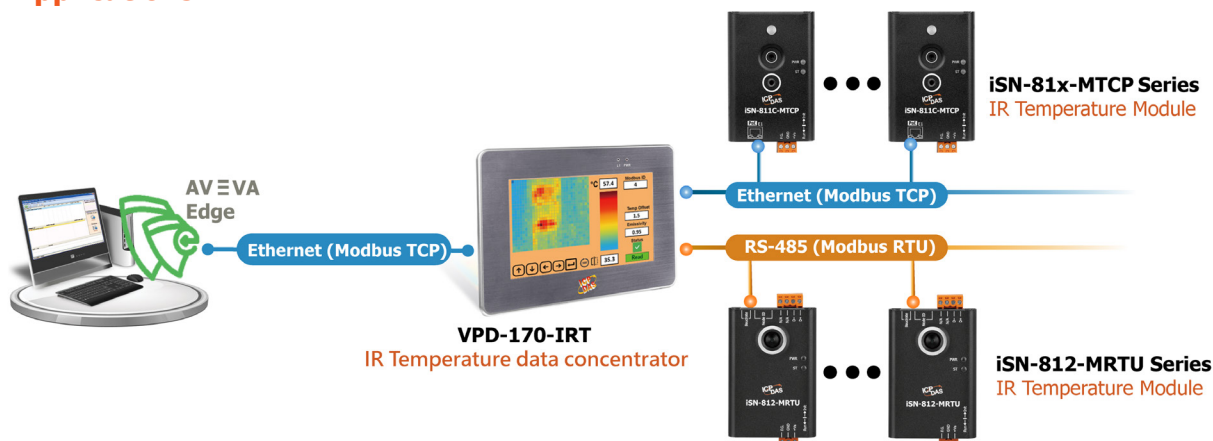
- High-resolution color touch screen
- Front Panel: IP65 Waterproof
- Provide setting Temperature threshold value function
- 9 Signal Relay Output channels for Alarm
- Provide Thermography
- Connect up to 31 iSN-81x-MRTU series module
- Support Modbus TCP/RTU protocol



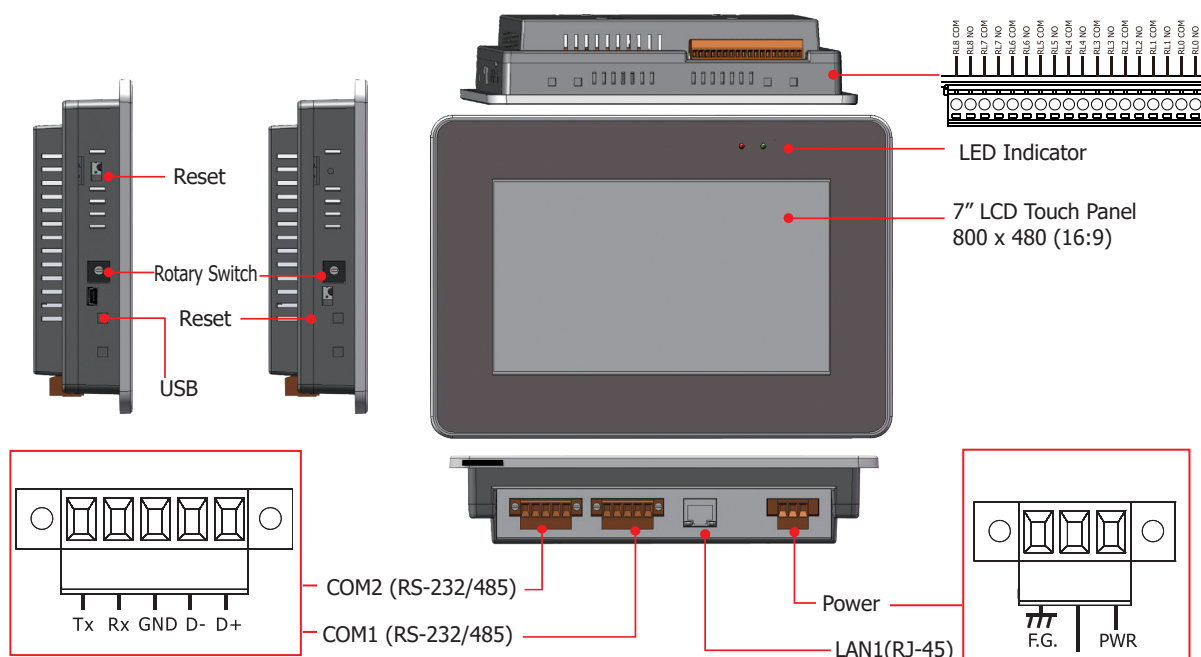
### Introduction

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



## ■ System Specifications

<b>Main Unit</b>	
CPU	32-bit RISC CPU
Storage	64 MB SDRAM/64 MB Flash
Real Time Clock	Yes
<b>Display</b>	
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
<b>LED Indicators</b>	
Status	2 LED
<b>Relay Output</b>	
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 <sup>5</sup> ops.
Mechanical Endurance	10 <sup>8</sup> ops.
Power on Value	Yes
Safe Value	Yes
<b>COM Ports</b>	
Ports	2 x RS-232 (3-pin) or RS-485 (including Self-Tuner) ;2500 VDC isolated
Protocol	Modbus RTU
<b>HMI</b>	
Buzzer	Yes
Rotary Switch	Yes
Rubber Keypad	No
Reset Button	Yes
<b>Ethernet</b>	
Ports	RJ-45 x 1, 10/100 Base-TX
Protocol	Modbus TCP
<b>USB</b>	
Specification	USB 1.1 Client (Firmware updates only)
Connector	Mini-B
<b>Power</b>	
Consumption	3.6 W
Powered from PoE	IEEE 802.3af, Class1 (48 V)
Powered from Terminal Block	+12 ~ 48 VDC
<b>Mechanical</b>	
Dimensions (mm)	217 mm x 153 mm x 33 mm
Installation	Wall Mounting
Ingress Protection Rating	Front Panel: NEMA 4 /IP65
<b>Environment</b>	
Operating Temperature	-10 ~ +60°C
Storage Temperature	-20 ~ +70°C
Humidity	10 ~ 90% RH, Non-condensing

## ■ Ordering Information

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