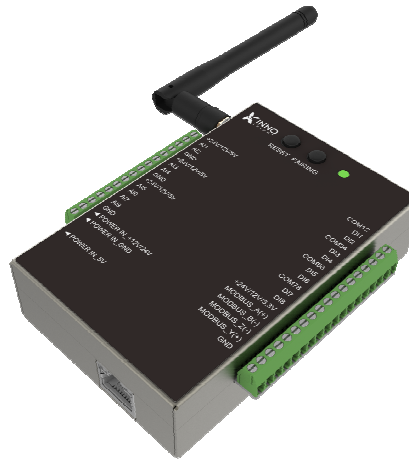


IOT Wireless Device for Data Collection

General Description

STAR-1610 uses the ultra-low-power MCU based on the high-performance Arm® Cortex®-M4 32-bit RISC core and provides multi-interface, including digital input, 0-10V analog input and RS-485 for different sensors, smart power meter, PLC, display panel ... and device with these interface to collect data. STAR-1610 is base on different modularized wireless technology, WI-FI · Zigbee · Sigfox · NB-IOT and LoRA for different applications and fields.



L : 105mm
W : 70mm
H : 27mm

Feature

- Chipset : ARM® Cortex®-M4 32-bit MCU
- Power Supply : Micro USB (5V/1A)
Terminal Block (12-24V)
- Button : Pairing / Reset
- LED : Blue / Red
- Device Storage : Micro SD Card * 1 (Up to 128G)
- Support Sensor Type : Industrial
- Supply Sensor Power (Output)
 - Industrial Sensor : 3.3V, 5V, 12V(Default), 24V / 0.5A
- Supply Sensor I/O
 - Industrial Sensor : RS-485*1 (Full/Half Duplex), 8-ch Analog Input (Single End 0-10V)
 - Digital Input*8
- Connectivity : IEEE802.11b/g/n WI-FI 1T1R
10/100M Ethernet
- Antenna : 2.4G WI-FI (Default)
- Environment Compliance : RoHS Compatible

Pin Connect Description

PIN NAME	TYPE	DESCRIPTION
POWER IN_+12V/24V	P	Power Input 12V-24V
POWER IN_GND	P	Ground
POWER IN_5V	P	Power Input 5V / Micro USB
+24V/12V/5V	P	Provide to Sensor, Default is 12V
GND	P	Ground
AI1	AI	CH1 ADC (Single End)
AI2	AI	CH2 ADC (Single End)

AI3	AI	CH3 ADC (Single End)
AI4	AI	CH4 ADC (Single End)
AI5	AI	CH5 ADC (Single End)
AI6	AI	CH6 ADC (Single End)
AI7	AI	CH7 ADC (Single End)
AI8	AI	CH8 ADC (Single End)
COM12	DI/P	For CH1 & CH2 GND
DI1	DI/P	CH1 Digital Input 12V-24V
DI2	DI/P	CH2 Digital Input 12V-24V
COM34	DI/P	For CH3 & CH4 GND
DI3	DI/P	CH3 Digital Input 12V-24V
DI4	DI/P	CH4 Digital Input 12V-24V
COM56	DI/P	For CH5 & CH6 GND
DI5	DI/P	CH5 Digital Input 12V-24V
DI6	DI/P	CH6 Digital Input 12V-24V
COM78	DI/P	For CH7 & CH8 GND
DI7	DI/P	CH7 Digital Input 12V-24V
DI8	DI/P	CH8 Digital Input 12V-24V
+24V/12V/3.3V	P	Provide Sensor, Default is 12V
MODBUS_A(+)	BUS	Receiver Input(Full Duplex) Receiver Input or Driver Output (Half Duplex)
MODBUS_B(-)	BUS	Receiver Input (Full Duplex) Receiver Input or Driver Output (Half Duplex)
MODBUS_Z(-)	BUS	Driver Output (Full Duplex)
MODBUS_Y(+)	BUS	Driver Output (Full Duplex)
Digital Input can support NPN & PNP types. DI1 / CH1 Digital Input 12V-24V or CH1 GND DI2 / CH2 Digital Input 12V-24V or CH2 GND COM12 / CH1 & CH2 GND or Digital Input 12V-24V		