Data Sheet
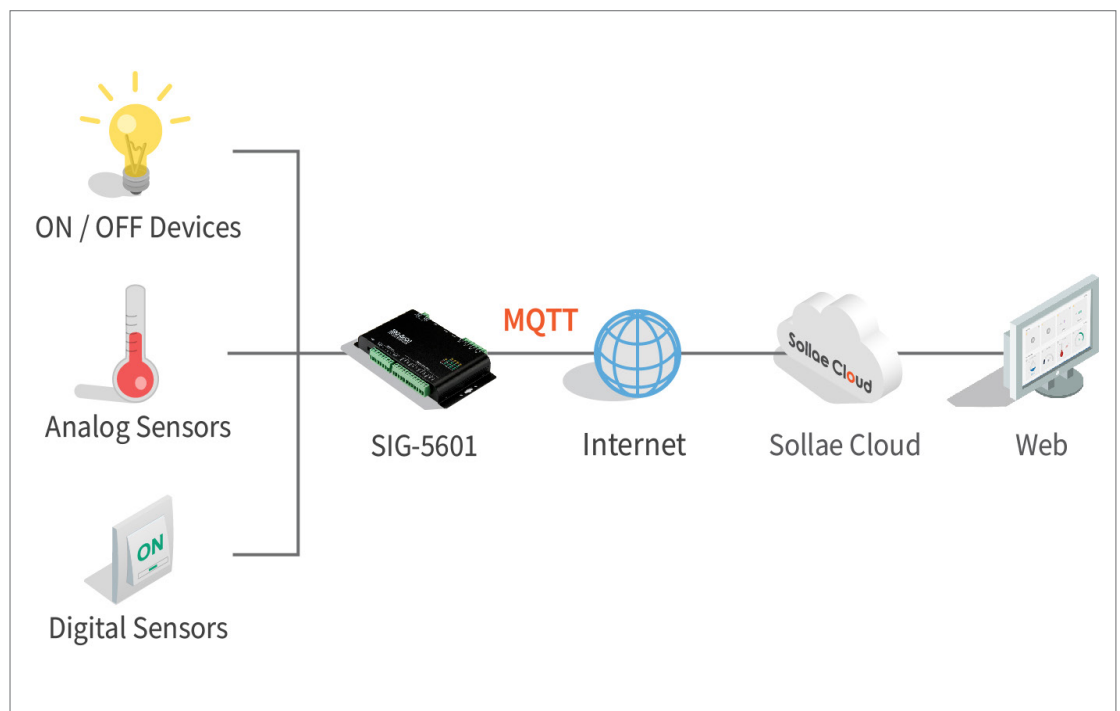# SIG-5601 | 4-Port I/O Gateway to Sollae Cloud

Overview

SIG-5601 is an industrial I/O gateway connected to Sollae Cloud.

It is equipped with 4 analog input ports, 4 digital input ports, 4 digital output ports, and Ethernet and WiFi interfaces. Users can remotely monitor the values of sensors/devices connected to the digital and analog input ports of this product and control the devices connected to the digital output ports by using a web browser on their PC, tablet, or smartphone.

Features

· 4 analog input ports: voltage (0 ~ 5V) or current (4 ~ 20mA, 0 ~ 20mA)
· 4 digital input ports: Wet contact, Dry contact, NPN, PNP input
· 4 digital output ports (relay): both NO and NC output
· Digital input port with Up/Down counter
· Ethernet and WiFi (USB WiFi Dongle is required) interfaces
· Freely connected to Sollae Cloud via MQTT
· Data is encrypted and securely transmitted using TLS 1.2
· Client certificate authentication for devices
· Industrial temperature range (-40°C ~ +85°C)

System Diagram

Specifications

Digital Input	
Input Type	Dry Contact / Wet Contact / NPN / PNP
Input Voltage Range	4.5V ~ 25V
Number of Ports	4 ports
Digital Output	
Output Type	Relay (Type C - NO: Max DC 30V/5A with resistive load, NC: Max DC 30V/1A with resistive load)
Number of Ports	4 ports
Analog Input	
Input Type	Voltage (0V ~ 5V) or Current (4mA ~ 20mA / 0mA ~ 20mA)
Resolution	12 bits
Number of Ports	4 ports
Network Physical Interface	
Wired LAN	10Base-T/100Base-TX Ethernet (RJ45)
	Ethernet Speed Auto Sense
	1:1 or Cross-over Cable Auto Sense
Wireless LAN	IEEE802.11b/g Wireless LAN with a USB dongle
Software Functions	
Wireless LAN Mode	Infrastructure
Protocols	IP, TCP, ICMP, DHCP, mDNS, MQTT, SSL/TLS 1.2 WPA-PSK / WPA2-PSK, WPA-Enterprise (TTLS / PEAP)
Network Security	Client certificate-based mutual authentication over TLS 1.2
Indicators (LEDs)	
LED	PWR, RUN, STS, LINK, MTX, MRX, Di0~Di3, Do0~Do3
Management	
spFinder	Configuration and Monitoring Tool
Security	Password
Dimension	
Size	180mm x 110mm x 26mm
Weight	About 485g
Operating Environments	
Input Voltage	PWR1 - Terminal Block, DC8.5V~38V
	PWR2 - DC jack, DC5V±0.5V
	USB (Setup) - micro-USB, DC5V±0.5V
Protection	Reverse Voltage Protection / Surge Protection
Current Consumption	Typically, 3.3W
Operating Temperature	−40℃ ~ +85℃
Storage Temperature	−40℃ ~ +85℃
Certificate	
KC	Registration (KN 32, KN 35)
CE	EMC 2014/30/EU, RoHS 2011/65/EU
FCC	FCC Part 15 Subpart B, Class A