

Smart IoT Gateway - iConnector with integrated IO module



Smart City, Smart Agriculture, Smart Facility, Smart Factory, Smart Utility, Smart Energy, Smart Logistic

SKU: STHC-IO

SMART IOT GATEWAY - iConnector with Integrated I/O STHC-IO



STHC-IO-H1.PNG



Safe Zone

Hazardous Zones

STHC-IO is same as STHC, is a Smart IoT Gateway, aka iConnector, a main component in any IoT application. However, STHC-IO has integrated IO ports allow it to connect to sensors, meters, equipments...directly and easily. STHC-IO has compact size and light weight with IP67 protection allows installation for both indoor and outdoor. With built-in Data analytic functions, it delivers right away the useful information from the raw data of sensors/meters...This useful information will be sent back to server for data logging, data analytics, monitoring & controls...iConnector STHC-IO also support multiple Industrial Fieldbus like Modbus, EthernetIP, Profinet, CCLink, Wireless sensor network...It connects to server system via LAN/WAN as Ethernet, WiFi or Cellular.

Applications

Condition Based Monitoring, Energy Monitoring, Facility Monitoring, Fuel Monitoring, Gas Leakage Detection, Machine Health Monitoring, Production Monitoring, Temperature Monitoring, Vibration Monitoring, Warehouse Monitoring, Water Meter Reading

Notes For Applications

- 3-in-1 Device**
iConnector is a 3-in-1 device, comprises Data logger + Logic Controller + Internet Gateway
- Integrated I/O Ports**
Built-in I/O Ports 4AI/DI, 4DI, 4 relay, 1 Pulse PWM output and 1 RS485 Master ModbusRTU allows extending I/O easily
- AC Power Supply**
Integrated AC Power supply with very wide input range 85 ~ 305VAC for stable working!
- NO need Programming**
Don't need to learn any Programming language, just configure it remotely by Globiots platform
- Just 2-step for using**
Just install and configure it remotely on Globiots, then you can start use it!

SIMPLE REMOTE MONITORING & CONTROLS BY IOT PLATFORM



DAVITEQ TECHNOLOGIES INC

Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

+84.28.6268.2523 / 6268.2524

info@daviteq.com

www.iot.daviteq.com

Created date: Jul-03-2024


Updated date: Nov-04-2024


1/4


Specification

Host Communication Cellular type	GPRS Quadband/3G-Dual band or Penta Band (refer specification of STHC)
Host Communication Ethernet type	01 x RJ45 port, 10Mbps
Host Communication WiFi type	802.11b/g/n, 2.4Ghz,internal antenna
GPS	option, only available on GPRS version or 3G-Penta band version, standard internal antenna or optional external antenna
Host communication supports	TCP/IP, UDP/IP, FTP, HTTPS, SNMP...
Fieldbus communication	ModbusRTU x 01 port, 31 slaves, max 19.2 kpbs
Integrated I/O Module	4AI/DI, 4DI, 4 Relay, 1 Pulse PWM output (refer specification of STHM-MBIO)
Digital Inputs	Opto-coupler, 4.7 kohms input resistance, 5000V rms isolation, Logic 0 (0-1VDC), Logic 1 (5-24VDC), Functions: logic status 0/1 or Pulse counting (32 bit counter with max 4khz pulse)
Analog Inputs	Select between 0-10VDC input or 0-20mA input, 12 bit Resolution, can be configured as Digital input (max 10VDC input)
Relay Output	Electro-mechanical Relays, SPDT, contact rating 250VAC/5A, LED indicators, Latch control enable
Pulse Output	Open-collector, opto-isolation, max 10mA and 80VDC, On/off control, Pulser (max 2.5Khz, max 65535 Pulses) or PWM (max 2.5Khz)
Vietnam Type Approval Certification	QCVN 54:2011/BTTTT, QCVN 15:2015/BTTTT (DAVITEQ B00122019)
Power supply	85 ~ 305VAC, 47 ~ 440Hz
Back-up battery	Lithium Super Capacitor (to alert shortage of power supply)
On-board logging	2MB Flash
SIM slot	01 x micro-SIM (cellular versions only)
Operating Temperature	-20 .. + 70 degC
Dimension & weight	H230xW130xD77, < 1.5 kgs
Housing/Protection	Aluminum+Polycarbonate, IP67, wall mount pads

DAVITEQ TECHNOLOGIES INC

 Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

 +84.28.6268.2523 / 6268.2524

 info@daviteq.com

www.iot.daviteq.com

Created date: Jul-03-2024

Updated date: Nov-04-2024

2/4

MANUFACTURING MONITORING



STHC-IO-H3.PNG

MACHINES / EQUIPMENTS CONDITION MONITORING



STHC-IO-H4.PNG

ENVIRONMENT MONITORING



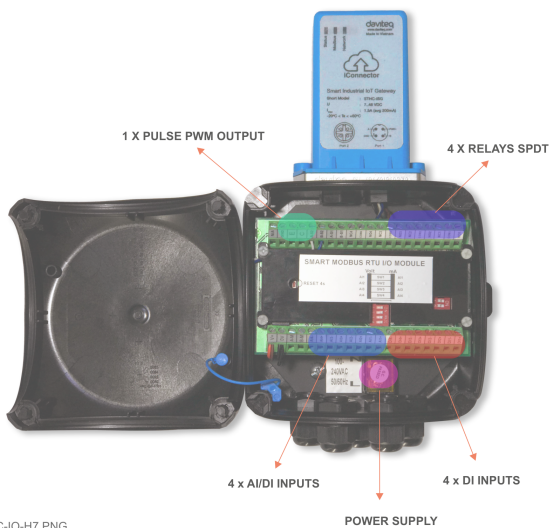
STHC-IO-H5.PNG

SMART AGRICULTURE / SMART FARM



STHC-IO-H6.PNG

INTERNAL WIRING



STHC-IO-H7.PNG

USB-RS485 CONFIGURATION CABLE



STHC-IO-H8.PNG

DAVITEQ TECHNOLOGIES INC

Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

+84.28.6268.2523 / 6268.2524

info@daviteq.com

www.iot.daviteq.com

Created date: Jul-03-2024


Updated date: Nov-04-2024

Ordering Information

ITEM CODES	DESCRIPTIONS
STHC-IO-ISG02DB-01-AC	iConnector 3G Dual Band, internal antenna, integrated I/O with 04 relays, 4DI, 4AI/DI, 1 Pulse PWM output, RS485, power supply 85-305VAC, IP67
STHC-IO-ISG02GPS-01-AC	iConnector 3G Penta Band with GPS, internal antenna, integrated I/O with 04 relays, 4DI, 4AI/DI, 1 Pulse PWM output, RS485, power supply 85-305VAC, IP67
STHC-IO-ISG02DB-01-DC	iConnector 3G Dual Band, internal antenna, integrated I/O with 04 relays, 4DI, 4AI/DI, 1 Pulse PWM output, RS485, power supply 9..36VDC, IP67
STHC-IO-ISG02GPS-01-DC	iConnector 3G Penta Band with GPS, internal antenna, integrated I/O with 04 relays, 4DI, 4AI/DI, 1 Pulse PWM output, RS485, power supply 9..36VDC, IP67
SIMMOBI-3G	Mobifone Data SIM CARD, only SMS receiving mode (Vietnam only)
SIMMOBI-10K-01Y	12-month data plan for SIM CARD, unlimited data, GPRS/EDGE/UMTS/HSPA (Vietnam only)
ACCESSORIES	
RS485-FM12-USB-1	RS485/USB multi-purpose Configuration cable with connector m12 male, female and flying leads, with Power adapter 12VDC/2.0A
Notes	* Purchase configuration cable RS485-FM12-USB-1 for off-line configuration of iConnector

DAVITEQ TECHNOLOGIES INC

 Ho Chi Minh City, VN | Koblenz, DE | Melbourne, AU | Zurich, CH

 +84.28.6268.2523 / 6268.2524

 info@daviteq.com

www.iot.daviteq.com

Created date: Jul-03-2024

Updated date: Nov-04-2024

4/4