

Ex d Smart IoT Gateway Ex d iConnector

daviteq

SKU: STHC-X

ZONE 1/2 EXPLOSION-PROOF IOT GATEWAY Ex d iConnector STHC-X



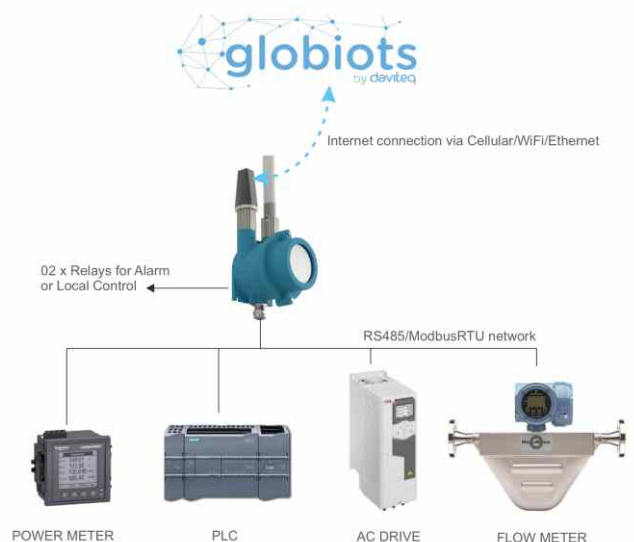
STHC-X is a Smart IoT Gateway, aka iConnector, with Ex d approved by ATEX, a main component in any IoT application. iConnector has a role to connect the real World's things like sensors, meters, machines...to server system for data logging, data analytics, monitoring & controls...

iConnector 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.

STHC-X can be installed in Zone 1 or Zone 2.

- ✓ **3-IN1 DEVICE**
iConnector is a 3-in1 device, comprises Data logger + Logic Controller + Internet Gateway.
- ✓ **NO NEED PROGRAMMING**
Don't need to learn any Programming language, just configure it remotely by Globiots platform
- ✓ **2-STEP DEPLOYMENT**
Just install and configure it remotely on Globiots, then you can start use it!
- ✓ **MULTIPLE-FIELDBUS PROTOCOLS**
Support multiple Fieldbus protocols like Modbus, EthernetIP, Profinet, CCink...
- ✓ **SINCE 2014!**
Industrial customers have been using iConnectors since 2014 because of its quality!

IOT SOLUTIONS BY CONNECTING TO GLOBIOTS PLATFORM or ANY IOT PLATFORM



STHC-X-H2.PNG

DAI VIET CONTROLS & INSTRUMENTATION COMPANY LTD.

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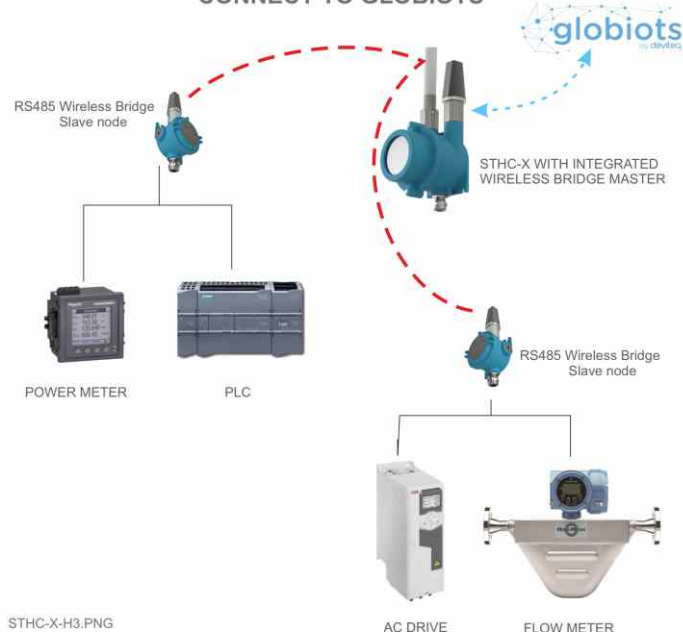
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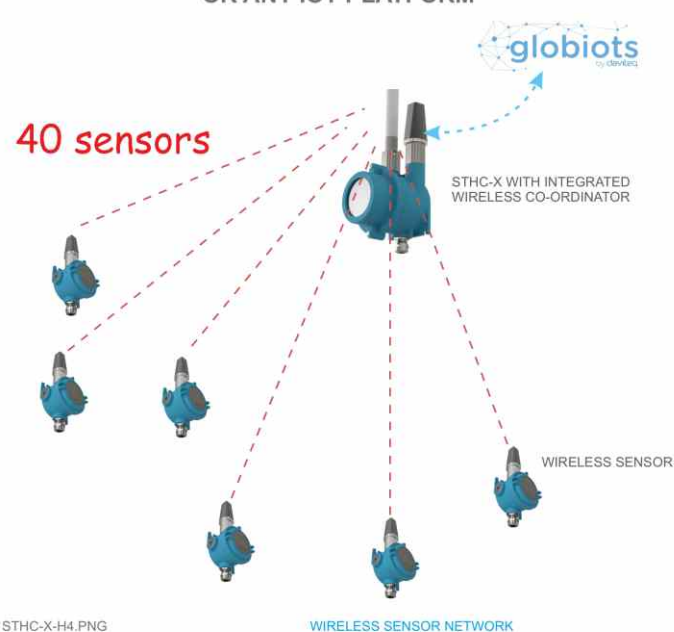
SPECIFICATION

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|-------------------------------------|--|
| Host Communication Cellular type | GPRS Quadband (850/900/1800/1900)/3G-Dual band (2100/900)/3G- Penta Band (2100/1900/850/850Japan/900/800Japan), external antenna |
| Host Communication Ethernet type | 01 x RJ45 port, 10Mbps |
| Host Communication WiFi type | 802.11b/g/n, 2.4Ghz, external antenna |
| Host communication supports | TCP/IP, UDP/IP, FTP, HTTPS, SNMP, MQTT... |
| Fieldbus communication | ModbusRTU x 01 port, 31 slaves, max 19.2 kbps |
| Wireless connections | Optional built-in wireless bridge or wireless co-ordinator |
| Vietnam Type Approval Certification | QCVN 54:2011/BTTTT, QCVN 15:2015/BTTTT (DAVITEQ B00122019) |
| Certification number | IMQ 14 ATEX 005 X and TÜV CY 18 ATEX 0206158 X |
| Marking | ATEX II 2G Ex db IIC T5/T6 Gb and ATEX II 2D Ex tb IIIC T100/T85°C Db |
| Directive | ATEX 2014/34/EU |
| Standards | IEC-EN60079-0 IEC-EN60079-1 IEC-EN60079-31 |
| Applicable zones | Zone 1 - 21 (gas) and Zone 2 - 22 (dust) |
| Power supply | 7..48VDC, avg 200mA, peak 2.0A |
| Electrical connection | 01xM25 conduit (cable gland is not included) |
| SIM slot | 01 x micro-SIM (cellular versions only) |
| Mounting method | Wall mount |
| Operating ambient Temperature | -40 .. + 85oC |
| Housing/Protection | Cast Aluminum with powder coating and glass windows, IP66 |
| Dimension / Netweight | H120xW120xD120 (not included antenna) / 1.7 kgs |
| Relay outputs | 02 x relay SPST NO contact, 125VAC@0.3A or 24VDC@1A |

A WIRELESS RS485 NETWORK then CONNECT TO GLOBIOTS



CONNECT WIRELESS SENSOR NETWORK TO GLOBIOTS OR ANY IOT PLATFORM



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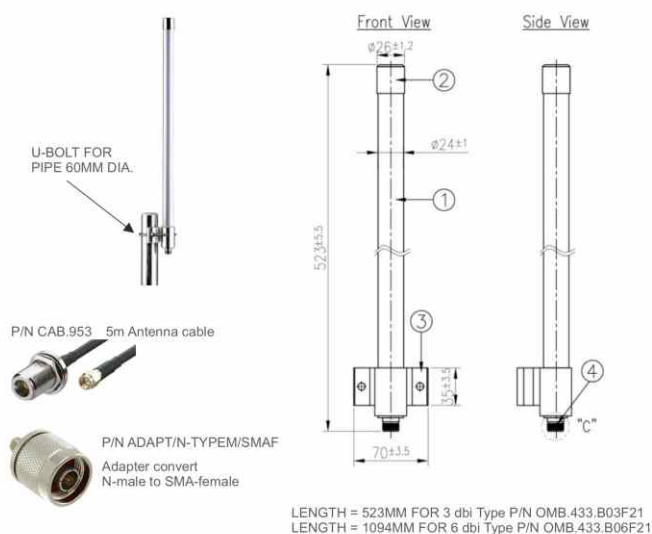
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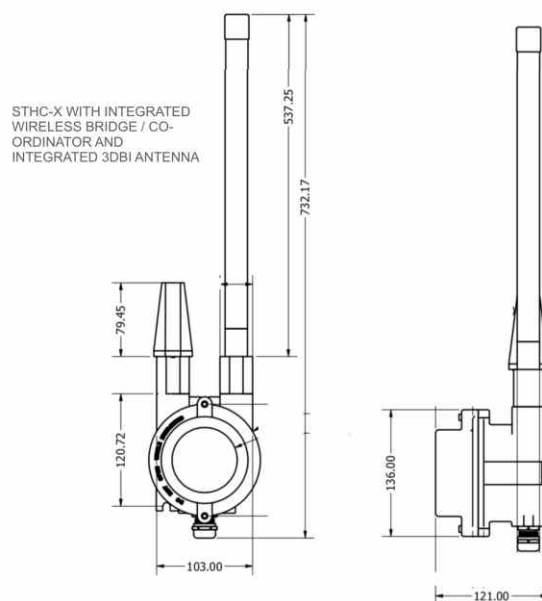
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HIGH GAIN OMNI ANTENNA 3DBI & 6DBI



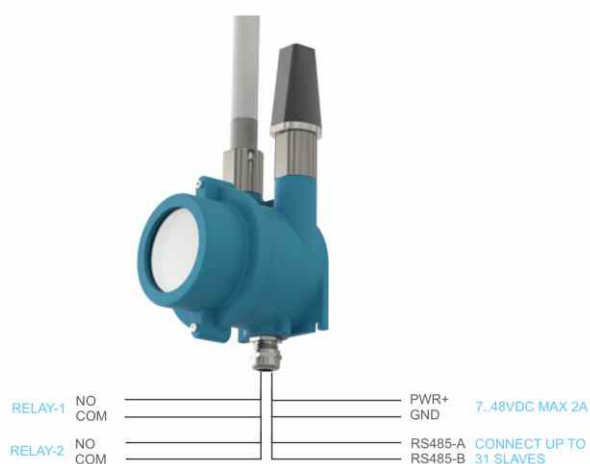
STHC-X-H5.PNG

DIMENSION DRAWING STHC-X



STHC-X-H6.PNG

SIMPLE WIRING DIAGRAM



STHC-X-H7.PNG

USB-RS485 CONFIGURATION CABLE



STHC-X-H8.PNG

ORDERING INFORMATION

| | |
|---------------------------------------|---|
| STHC-X-ISG02DB | iConnector 3G Dual Band, Ex d, external GSM antenna 2.3 dbi N-male, RS485/ModbusRTU |
| STHC-X-ISG02 | iConnector 3G Penta Band, Ex d, external GSM antenna 2.3 dbi N-male, RS485/ModbusRTU |
| STHC-X-ISGWF | iConnector WiFi, Ex d, external WiFi antenna 4.48 dbi N-male, RS485/ModbusRTU |
| STHC-X-ISGETH | iConnector Ethernet, Ex d, RS485/ModbusRTU |
| WITH INTEGRATED WIRELESS BRIDGE | |
| STHC-X-ISG02DB-WS433-BLEX-RS485-M3 | iConnector 3G Dual Band*, Ex d, external GSM antenna 2.3 dbi N-male, RS485/ModbusRTU with built-in wireless bridge, master RS485, external antenna 3dbi with 5m RF cable |
| STHC-X-ISG02-WS433-BLEX-RS485-M3 | iConnector 3G Penta Band*, Ex d, external GSM antenna 2.3 dbi N-male, RS485/ModbusRTU with built-in wireless bridge, master RS485, external antenna 3dbi with 5m RF cable |
| STHC-X-ISGWF-WS433-BLEX-RS485-M3 | iConnector WiFi*, Ex d, external WiFi antenna 4.48 dbi N-male, RS485/ModbusRTU with built-in wireless bridge, master RS485, external antenna 3dbi with 5m RF cable |
| WITH INTEGRATED WIRELESS CO-ORDINATOR | |
| STHC-X-ISG02DB-WS433-CLEX-04 | iConnector 3G Dual Band*, Ex d, external GSM antenna 2.3 dbi N-male, RS485/ModbusRTU with built-in wireless co-ordinator, external antenna 3dbi with 5m RF cable |
| STHC-X-ISG02-WS433-CLEX-04 | iConnector 3G Penta Band*, Ex d, external GSM antenna 2.3 dbi N-male, RS485/ModbusRTU with built-in wireless co-ordinator, external antenna 3dbi with 5m RF cable |
| STHC-X-ISGWF-WS433-CLEX-04 | iConnector WiFi*, Ex d, external WiFi antenna 4.48 dbi N-male, RS485/ModbusRTU with built-in wireless co-ordinator, external antenna 3dbi with 5m RF cable |

ACCESSORIES FOR CELLULAR IOT GATEWAY (ICONNECTOR)

| | |
|-----------------|---|
| SIMMOBI-3G | Mobifone DATA sim card, with sms (receive only), sending sms is in additional cost (for Vietnam only) |
| SIMMOBI-10K-01Y | 12-month Data plan of Mobifone sim card, unlimited data, GPRS/EDGE/UMTS/HSPA (Vietnam only) |

OPTIONAL ANTENNA & ITS ACCESSORIES

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|--------------------|--|
| OMB.433.B03F21 | 433MHz 3dBi OMNI antenna, IP65, N-female, L=523mm, c/w Male-Male N-Adapter P/N 26-8009 |
| OMB.433.B06F21 | 433MHz 6dBi OMNI antenna, IP65, N-female, L=523mm, c/w Male-Male N-Adapter P/N 26-8009 |
| CAB.953 | Low loss antenna cable, 5m, N-female and SMA-male |
| ADAPT/N-TYPEM/SMAF | N-male to SMA-Female adapter |

OTHER 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

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| | * Order RS485-FM12-USB-1 to configure wireless bridge and iConnector. |
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