



Basic Information

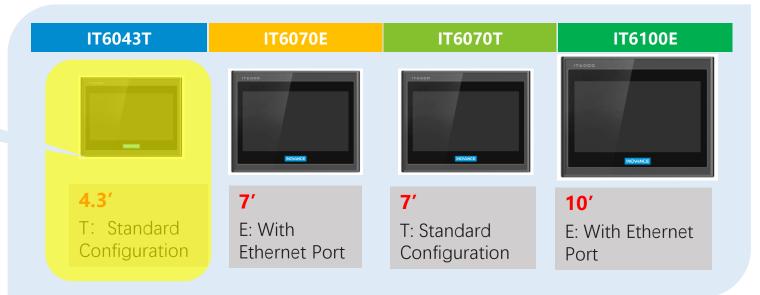




Only IT7000 has 15' display screen model

Only IT6000 has 4.3' display screen model

IT6000 series has 4.3', 7', 10' models, IT7000 series has 7', 10', 15' models.



INOVANCE

Basic Information

| Configuration | IT6043E/T | T6070E/T | IT7070E | TT6100E | IT7100E | IT7150E |
|---------------------|---|--|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| CPU | Cortex A8 600MHz | Cortex A8 600MHz | Cortex A8 600MHz | Cortex A8 600MHz | Cortex A8 1GHz | Cortex A8 1GHz |
| Flash | 128M | 128M | 128M | 128M | 256M | 256M |
| DRAM | 128M DDR3 | 128M DDR3 | 128M DDR3 | 128M DDR3 | 256M DDR3 | 256M DDR3 |
| SD card slot | | ٧ | V | V | ٧ | V |
| Serial port | COM1(422/485) COM2(232) COM3(485) | COM1 COM2(only IT6070E) COM3(only IT6070E) | COM1 COM2 COM3 | COM1 COM2 COM3 | COM1 COM2 COM3 | COM1 COM2 COM3 |
| Ethernet port | √(only IT6043E) | √(only IT6070E) | √(only IT7070E) | V | V | V |
| Mini USB B-type | | | ٧ | | ٧ | V |
| USB B-type | IT6043T | V | | ٧ | | |
| USB A-type | | ٧ | ٧ | ٧ | ٧ | ٧ |
| Input voltage | 24VDC±20% | 24VDC±20% | 24VDC±20% | 24VDC±20% | 24VDC±20% | 24VDC±20% |
| Rated input current | 200mA | 250mA | 250mA | 300mA | 300mA | 800mA |
| Protection level | Front panel IP65, back cover IP20 | Front panel IP65, back cover IP20 | Front panel IP65, back cover IP20 | Front panel IP65, back cover IP20 | Front panel IP65, back cover IP20 | Front panel IP65, back cover IP20 |
| Display size | 4.3 inch | 7 inch | 7 inch | 10.1 inch | 10.1 inch | 15 inch |
| Resolution | 480*272 | 800*480 | 800*480 | 1024*600 | 1024*600 | 1024*768 |

^{*} IT7000 (IT7100E/IT7150E) has better CPU processor than IT6000

^{*} IT7000 has different programming port (mini B) compared with IT6000 (USB B type)

^{*} IT7000 has different serial port compared with IT6000



Connection Terminals



☐ USB programming port

> <u>IT6000: type B</u>

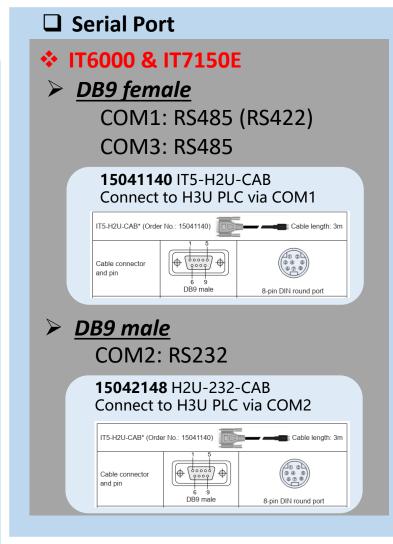


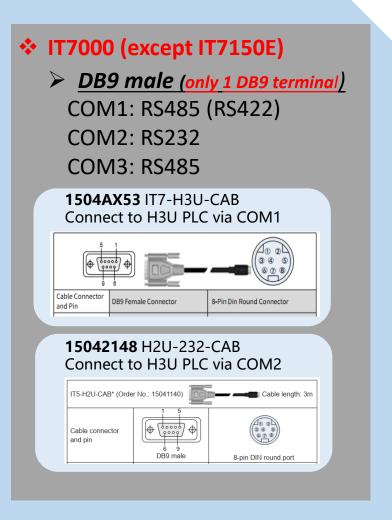
15041123 IT5-USB-CAB

> IT7000: mini B



15041200 H2U-USB-CAB *same as H3U/AM600 USB programming cable

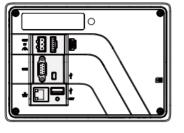




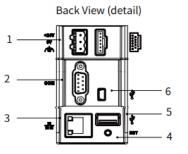
* IT7000 (except IT7150E) only has 1 DB9 terminal!

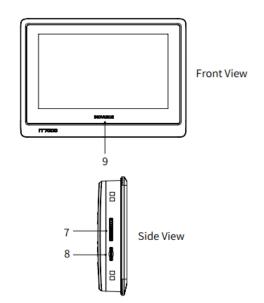
IT7070E Terminals Overview











| 1504AX53 | IT7-H3U-CAB | DB9 Female to DIN8, connect to PLC (RS422/485) |
|----------|--------------|---|
| 15041200 | H2U-USB-CAB | USB A to mini B, programming cable |
| 15040262 | S6-L-T04-3.0 | Ethernet Cable |
| 15042148 | H2U-232-CAB | DB9 female to DIN8, connect to PLC (RS232 to RS422) |

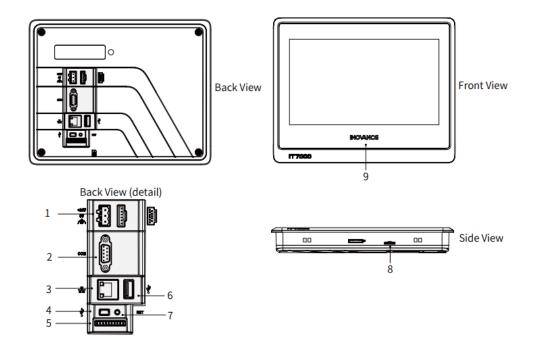
- 1. Power Supply: 24VDC (connector included)
- 2. DB9 male connector: serial port COM1/COM2/COM3
- 3. Ethernet Port: connect to PLC/PC
- 4. Reset Button: restores default settings
- 5. USB (Type A): read/write a USB drive
- 6. Mini USB (Type B)^[1]: program upload/download
- 7. Kernel/firmware update port^[2]
- 8. Micro SD card: data read/write, project file download and kernel/firmware update
- 9. Power Indicator
- [1] Compared with IT6000, IT7000 use USB mini B type as programming port, in this sense, it can use the same programming cable as H3U/AM600.

 Pin Header
- [2] Requires external board.



IT7100E Terminals Overview





| 1504AX53 | IT7-H3U-CAB | DB9 Female to DIN8, connect to PLC (RS422/485) |
|----------|--------------|--|
| 15041200 | H2U-USB-CAB | USB A to mini B, programming cable |
| 15040262 | S6-L-T04-3.0 | Ethernet Cable |
| 15042148 | H2U-232-CAB | DB9 female to DIN8, connects to PLC (RS232 to RS422) |

- 1. Power Supply: 24VDC (connector included)
- 2. DB9 male connector: serial port COM1/COM2/COM3
- 3. Ethernet Port: connect to PLC/PC
- 4. Mini USB (Type B)[1]: program upload/download
- 5. Kernel/firmware update port^[2]
- 6. USB (Type A): read/write a USB drive
- 7. Reset Button: restores default settings
- 8. Micro SD card: data read/write, project file download and kernel/firmware update
- 9. Power Indicator

[1] Compared with IT6000, IT7000 use USB mini B type as programming port, in this sense, it can use the same programming cable as H3U/AM600.

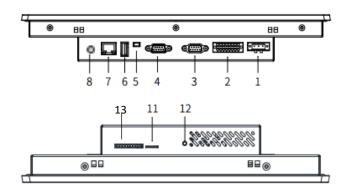
Pin Header

[2] Requires external board.



IT7150E Terminals Overview







| 15041140 | IT5-H2U-CAB | DB9 Male to DIN8, connect to PLC(RS422/485) |
|----------|--------------|--|
| 15041200 | H2U-USB-CAB | USB A to mini B, programming cable |
| 15040262 | S6-L-T04-3.0 | Ethernet Cable |
| 15042148 | H2U-232-CAB | DB9 female to DIN8, connects to PLC (RS232 to RS422) |

- 1. Power Supply: 24VDC (connector included)
- 2. IO terminal (reserved, available in customized version)
- 3. DB9 female connector: serial port COM1/COM3
- 4. DB9 male connector:COM2
- 5. Mini USB (Type B)[1]: program upload/download
- 6. USB (Type A): read/write a USB drive
- 7. Ethernet Port: connect to PLC/PC
- 8. 4G antenna port (reserved, available in customized version)
- 9. Power Indicator
- 10. Network status indicator
- 11. Micro SD card: data read/write, project file download and kernel/firmware update
- 12. Reset Button: restores default settings
- 13. Kernel/firmware update port^[2]
- [1] Compared with IT6000, IT7000 use USB mini B type as programming port, in this sense, it can use the same programming cable as H3U/AM600.

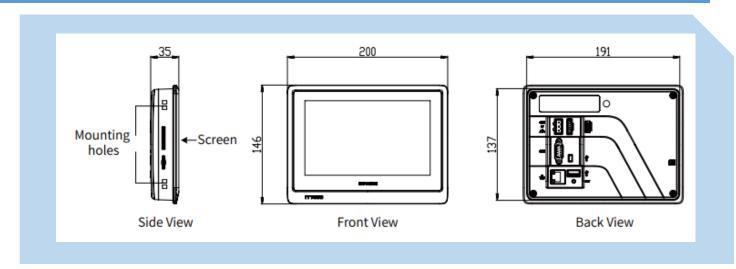
 Female Header
- [2] Requires external board.

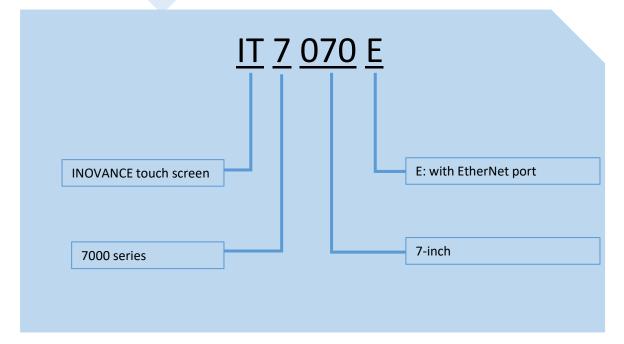


Dimensions





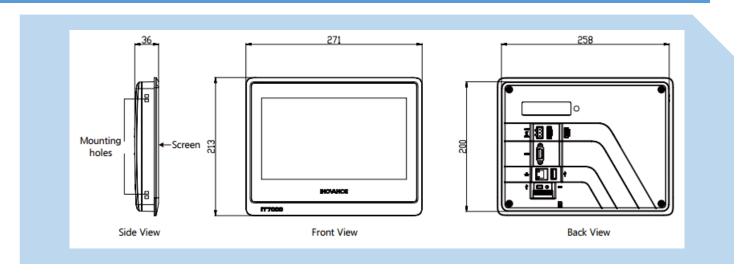


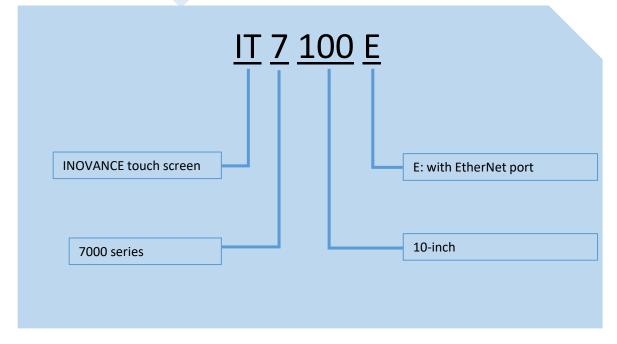


| Model | IT7070E | IT6070E/T |
|--|-----------------------------|----------------|
| Display Size (inch) | 7 | 7 |
| Overall Dimensions W x H x D (mm) | 200 × 146 × <mark>35</mark> | 200 × 146 × 42 |
| Installation Dimensions W × H (mm) | 191×137 | 191×137 |
| Recommended Screw Hole Size (mm) | 193×139 | 192×138 |





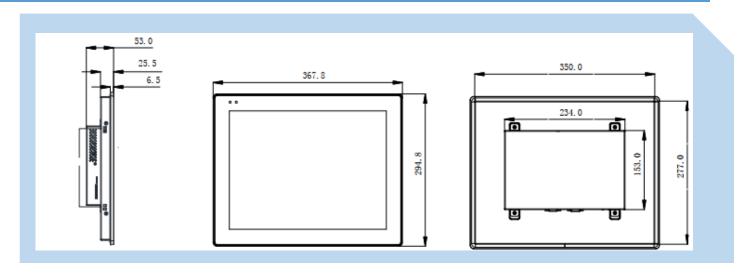


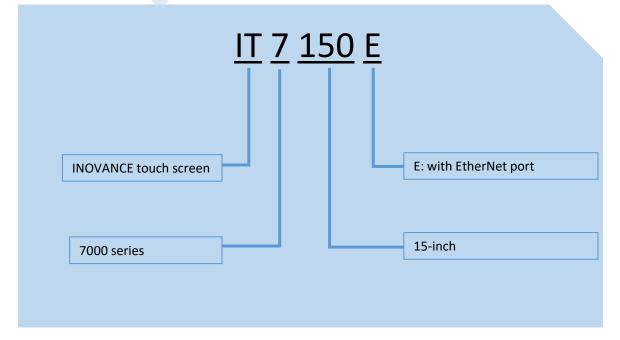


| Model | IT7100E | IT6100E |
|--|----------------|----------------|
| Display Size (inch) | 10 | 10 |
| Overall Dimensions W x H x D (mm) | 271 × 213 × 36 | 271 x 213 x 40 |
| Installation Dimensions W × H (mm) | 258 x 200 | 258 x 200 |
| Recommended Screw Hole Size (mm) | 260 x 202 | 259 x 201 |









| Model | IT7150E |
|--|--------------------|
| Display Size (inch) | 15 |
| Overall Dimensions W x H x D (mm) | 367.8 x 294.8 x 53 |
| Installation Dimensions W × H (mm) | 350 x277 |
| Recommended Screw Hole Size (mm) | 352 x 279 |



Communication

Communication

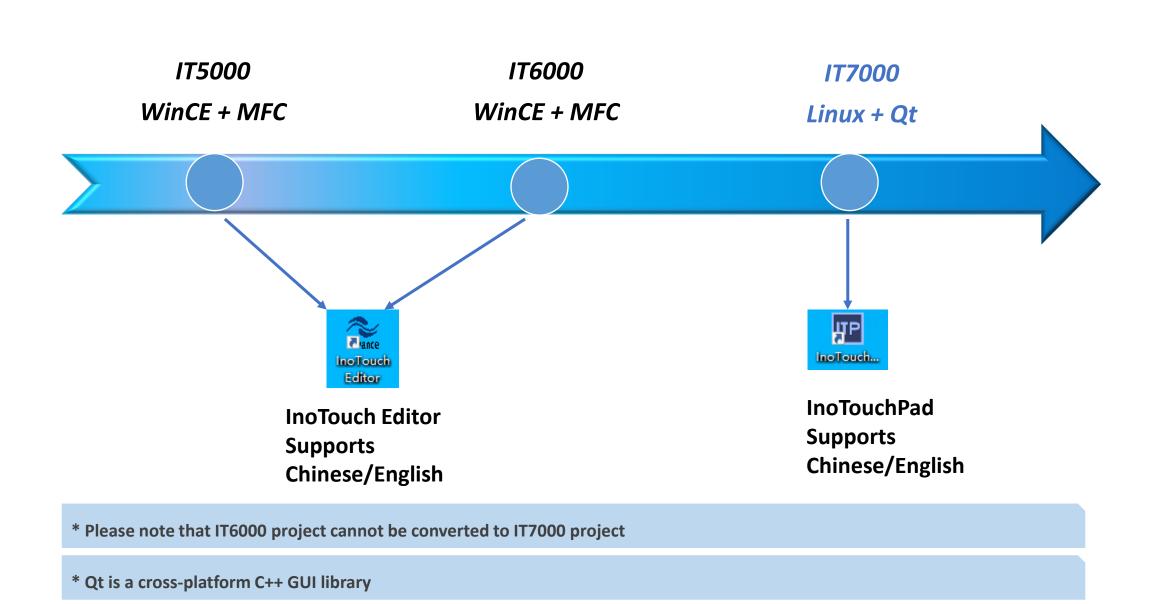


| ltem | IT7000 | IT6000 |
|----------------------|--|---|
| INOVANCE | INOVANCE PLC, Servo, AC Drive | INOVANCE PLC, Servo, AC Drive |
| Siemens | S7-200 smart (Ethernet)\S7-300 (Ethernet) S7-1200\1500 (Ethernet) S7-200 | Siemens S7-200 |
| Mitsubishi | MelSec-Q\L(Binary), MelSec-Q\L(ASCII) FX5U/3U/3G/2N/1S/1N | FX, FX1S,FX3G/3U |
| Omron | FINS Serial Protocol Fins TCP Protocol Hostlink | Omron C/COM1(Hostlink) Omron CP series Omron CJ/CS FINS/TCP |
| KEYENCE | KV-L120/700/1000/3000/5000/7500/Nano | |
| Panasonic | Panasonic-FP | Panasonic-FP |
| Delta | Delta DVP series (RTU) | Delta DVP series(ASCII) Delta DVP series(RTU |
| Yaskawa | | YASKAWA CP-316(H/HQ) YASKAWA MemobusTCP |
| Fatek | FB/FBS series | FATEK FBS Series |
| Xinjie | XC/XD/XL series | |
| Коуо | SN series | |
| LG | | LG Master-K Direct |
| OPC UA Client | Supported | |
| MQTT | Supported | |



Software



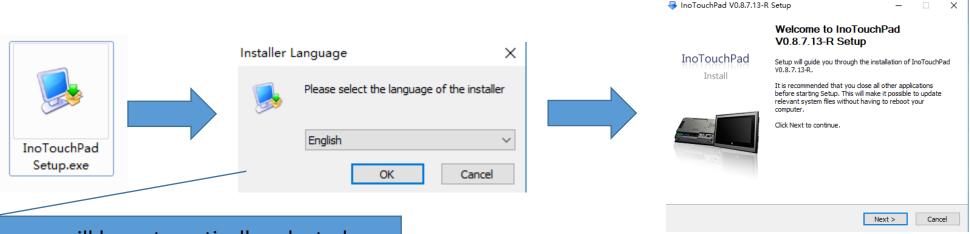




> InoTouchPad



- The development software of IT7000 is **InoTouchPad**, and the installation package currently supports three installation languages: English + simplified Chinese + traditional Chinese. The USB download driver will automatically registered after installation (the software can be downloaded from INOVANCE website: <u>Link</u>).
- InoTouchPad supports Windows XP /Windows 2000 /Windows Vista/Windows 7/8/10 and other operating systems(32/64 bit).



Language will be automatically selected according to the system language of PC.

Installation steps



Features









- ➤ Complete human-computer interaction function + script program coordination: indicator light, button, switch, curve, alarm, animation, report, formula, user management, data import and export, providing high-quality human-computer interaction experience
- ➤ **Abundant interfaces**: supports Ethernet, serial communication network scheme, support a variety of other equipment communication protocol
- > Extensible software platform: users can customize the development of control objects
- ➤ Abundant gallery resources + interface style Settings + smooth animation: convenient development of a unified interface style screen, improve the interactive experience of equipment operators



> Highly configurable software platform

Graphics, text, data objects are freely configured into various functions

Canvas control script draws graphics freely

Multi-language internationalization, support all standard language text input and display

InoTouchPad

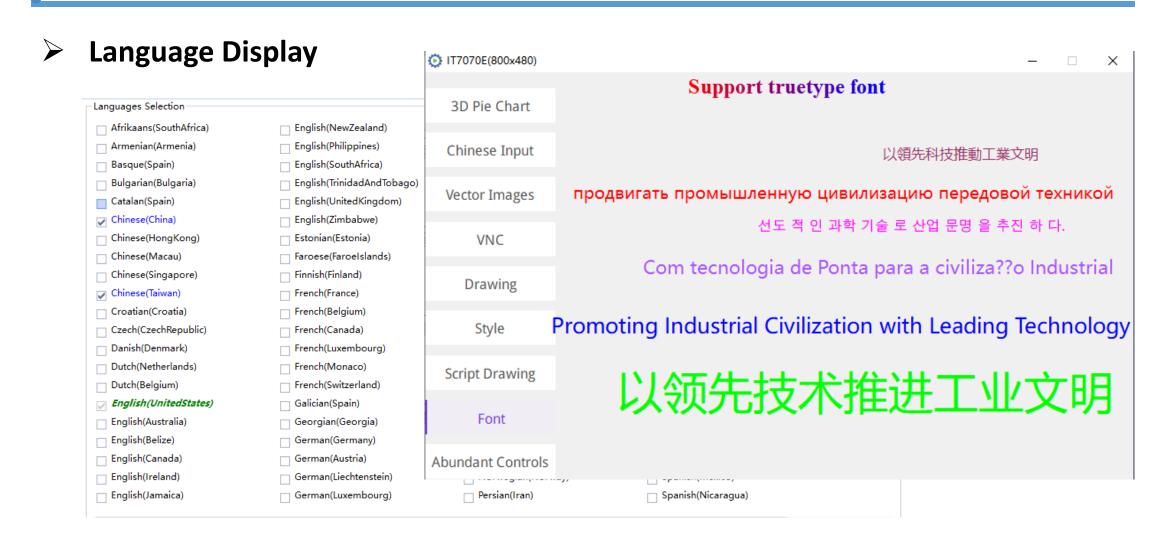
Scripts access local and remote databases

Extensible software platform, users can customize the controls

Supports the import of most vector and image formats



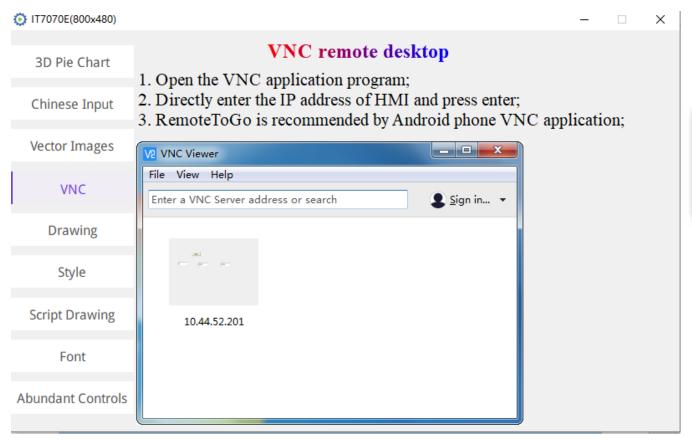


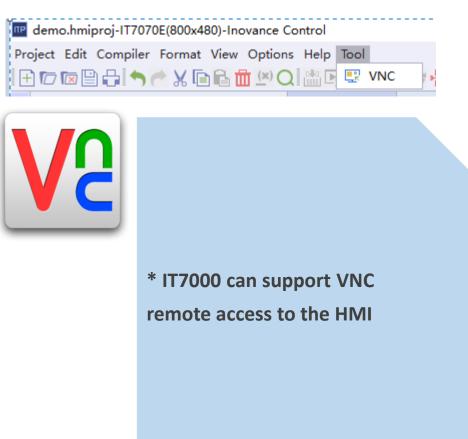


* Compared with IT6000, IT7000 series can display more languages, including Korean language which IT6000 cannot support well.



> VNC

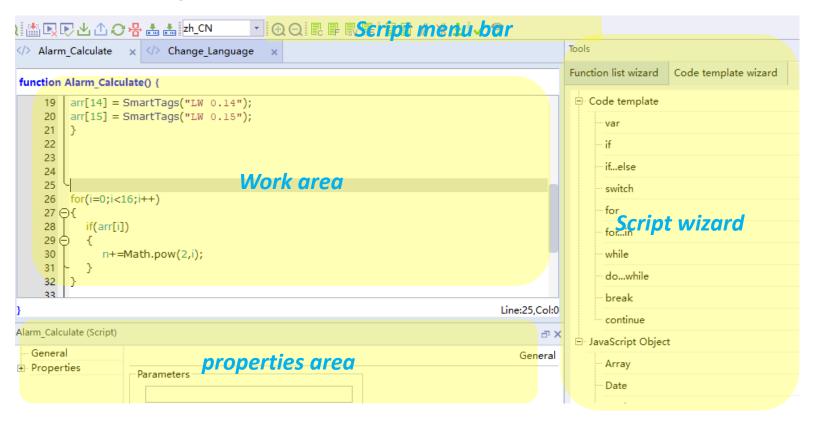








JavaScript



* IT7000 can support JavaScript.
Users can do logical operations,
read and write variable values
via script

* Up to 100 scripts can be created, and scripts are not allowed to call each other



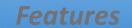
Control Style: Global Style

| +. | Name | ▲ Number ▼ | Comment |
|----|--------|------------|---------|
| 1 | style1 | 1 | |
| 2 | style2 | 2 | |
| 3 | style3 | 3 | |
| | | | |

```
1 ⊝QSSWidget,QSSFrame,QSSTextBrowser,QSSPlainTextEdit {
      border: 1px solid #adb1c2;
 3
 5 /*----*/
 6 ⊝QSSLineEdit{
      border: 1px solid #adb1c2;
10 ⊝QSSLineEdit:hover,QSSLineEdit:focus{
      background: #fafafa;
12
      border: 1px solid #a5c8ff;
13 }
14
15 ⊝QSSLineEdit:pressed{
      background: #f8f8f8;
17
      border: 1px solid #a5c8ff;
18 }
19
20 ⊝QSSLineEdit:disabled{
      background: #f0f0f0;
22
      border: 1px solid #dedede;
23
      color:#999999;
24
25
26
    /*----*/
28 ⊝QSSPushButton, QSSButton{
      border:1px solid #adb1c2;
30
      background: #f0f4f1;
31
32
33 ⊝QSSPushButton:hover, QSSButton:hover{
      border:1px solid #699ddd;
      background: #ffffff;
```

*Similar to CSS style of WEB, can configure beautiful interface by style

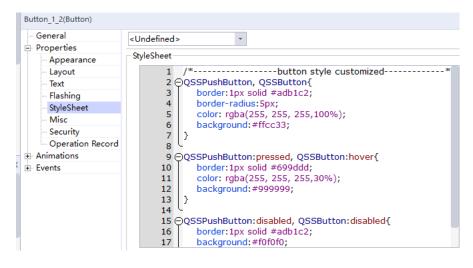
*Built-in 3 types global style, users can select one of them as start style





Control Style: Local Style





*Controls also support local style designed by users, configured local style will overwrite the global style



Status



Currently we don't have completed English support document but we have made a request for R&D about this.

| Option | Status Description | Remark |
|------------------------------|-------------------------------|--|
| CE certification | Yes | Self-declared Adobe Acrobat Document |
| Chinese Market Status | Launched at later 2019 | |
| Chinese User Guide | Released | Simple instruction document sent with the product |
| Chinese Screen Design Manual | Yes | Version A00 |
| Chinese Software | InotouchPad (V0.8.8.10) | There're some functions need to be improved. |
| English User Guide | Yes (IT7070/IT7100/IT7150) | |
| English Screen Design Manual | None | |
| English Software | InotouchPad (V0.8.8.10) | There's no English installation package but English will be automatically selected according to the system language of PC. |

INOVANCE

Forward Always Progressing