

IT7000 Series

High-performance HMI, intelligent process UI platform



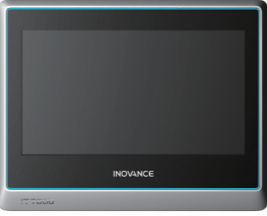
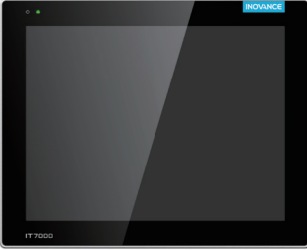
- Exquisite information display and smooth operation
- Cover applications from low-end to high-end
- Industry-level manufacturing technology
- Built-in InoTouchPad configuration software with flexible configuration functions and ease of use
- Abundant image resources, programmable UI style, and perfect operation UI
- Support for serial port, Ethernet, and WIFI-based stand-alone and multi-unit network communication
- Support for major PLC and AC drive products, servo communication protocols, and Modbus and ModbusTCP standard protocols
- The HMI screen can be cast to a mobile device such as mobile phone through VNC
- With highly extendable programming interfaces, advanced users can program their own plug-ins and dedicated communication protocols to meet their industry-specific needs

Attractive and powerful

- High display-to-body ratio
- Slim and light
- 15" aluminum alloy case



Model

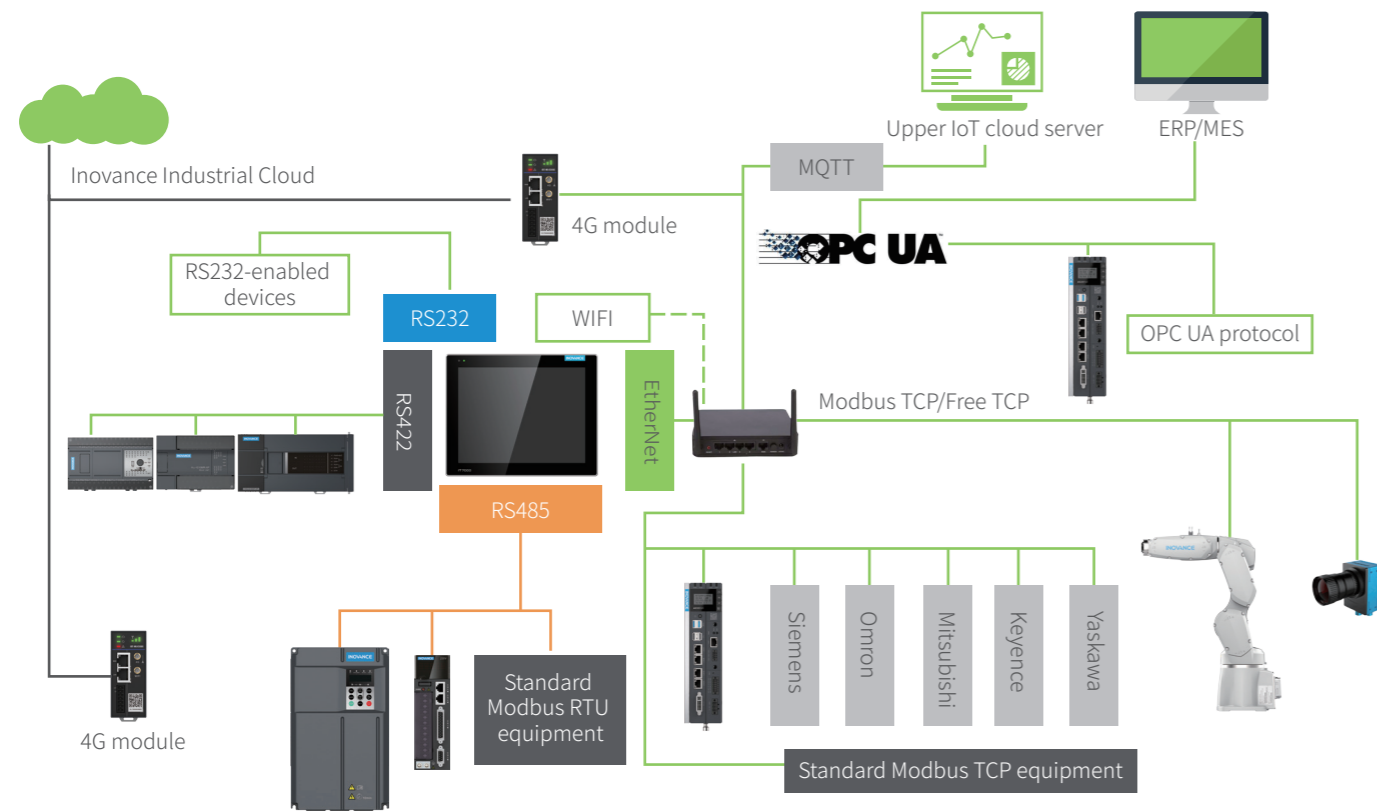
IT7070T/IT7070S	IT7070E	IT7100E/IT7100S	IT7150E
			
7.0" T: standard S: economical	7.0" E: with Ethernet interface	10.1" E: with Ethernet interface S: cost-effective	15.0" E: with Ethernet interface

Hardware Specifications

Model	IT7070E	IT7070T	IT7070S	IT7100E	IT7100S	IT7150E
Display size	7.0"			10.1"		15.0"
Resolution	800*480			1024*600		1024*768
Dimensions L * W * D (mm)	200*146*35			271*213*36		367.8*294.8*53
CPU	Cortex A8 600MHz					Cortex A8 1Ghz
RTC	✓	✓	✓	✓	✓	✓
DRAM	128MB			256MB DDR3	128MB DDR3	256MB DDR3
Flash	128MB			256MB	128MB	256MB
Brightness (cd/ m ²)	350			350		300
Display Color	24-bit true color			24-bit true color		24-bit true color
Backlight	LED			LED		LED
Backlight service life	35000hrs			30000hrs		50000hrs
SD card interface	✓	-	-	✓	-	✓
USB drive interface	USB 2.0 interface * 1					
USB download interface	Mini USB interface * 1					
Ethernet interface	✓	-	-	✓	✓	✓
Serial port	COM1 (RS422/RS485) COM2 (RS232) COM3 (RS485)	COM1 (RS422/RS485) COM2 (RS232)	COM1 (RS422/RS485)	COM1 (RS422/RS485) COM2 (RS232) COM3 (RS485)	COM1 (RS422/RS485)	COM1 (RS422/RS485) COM2 (RS232) COM3 (RS485)
Panel IP rating	Front panel IP65, back cover IP20			Front panel IP65, back cover IP20		Front panel IP65 Back cover IP20
product code	01450039	01450030	01450038	01450036	01450037	01450028

Various Flexible Networking Solutions

- PLC communication solutions of Inovance and other major manufacturers
- Communication between field devices, remote devices and mobile devices through Ethernet and WIFI
- OPC UA-based information system



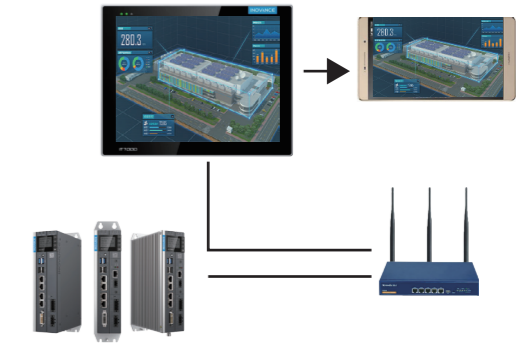
Protocol	Description
Inovance	All PLC, servo, AC drive, and HMI products
Siemens	Supports s7-200, smart200, s7-1200, s7-1500, s7-300 (supporting S7 Ethernet protocol, PPI is in development)
Mitsubishi	FX1N/FX2N/FX3U/FX3G/FX5U, Q/L series (supporting MC Ethernet protocol and FX computer link protocol)
Omron	CP series, CJ series, NX series, NP series, and NJ series (supporting FINS serial port and Ethernet protocol, EIP is in development)
Panasonic	FP series and FP2 series (supporting serial port protocol, Ethernet is in development)
Yaskawa	CP series, MP2300 (in development)
Keyence	KV series (in development)
Modbus	Standard Modbus equipment
OPC UA	OPC UA Client; Server is not supported
MQTT	Supports standard MQTT protocol
Free communication protocol	Inovance PLCs (H1U/H2U/H3U/H5U) that support free communication protocol, and other third-party devices; supports client and server

Cross-Platform Configuration Software

The full-featured InoTouchPad, which is used to build a small SCADA host controller system, can run on PCs and IPCs, as well as traditional embedded Linux HMI platforms.

Flexible expansion

- Graphics, text, data objects can be freely configured into various functions
- Expandable software platform allows users to import customized controls
- Canvas control script to draw graphics freely
- Screen can be cast to a mobile device (mobile phone or tablet) through VNC



Comfortable interaction

- Support for input and display of all standard characters
- Support for import of most vector and raster images
- 中文输入
- Support for multiple visualizations of statistical data



Feature-rich

- The G code program can be edited and downloaded to the controller for execution
- Trend chart and oscilloscope functions allow for sampling of the continuous waveform of the slave computer
- Historical data recording allows for saving specified records in an HMI local or extended USB drive or SD card. You can check and search for these records through the data view, and print them by the printer
- The recipe function allows manipulation of multiple nameable recipes



Ordering Information

IT7000 Series High-Performance General-Purpose HMI

Series	Code	Model	Description	Certification	Series
IT7000 series high-performance general-purpose HMI	01450038	IT7070S	HMI-IT7070S – IT7000 series 7" economical touch screen	CE	Economical configuration: 800x480, no SD card port, no Ethernet, no RS232 serial port, no panel power indicator COM1 (RS422/RS485) USBx1
	01450030	IT7070T	HMI-IT7070T – IT7000 series 7" standard touch screen	CE	Standard configuration: 800x480, no SD card port, no Ethernet COM1 (RS422/RS485) COM2 (RS232) USBx1
	01450039	IT7070E	HMI-IT7070E – IT7000 series 7" high-performance touch screen	CE	Advanced configuration: 800x480, Ethernet COM1 (RS422/RS485) COM2 (RS232) COM3 (RS485) USBx1
	01450037	IT7100S	HMI-IT7100S – IT7000 series 10" economical touch screen	CE	Economical configuration: 1024x600, Ethernet COM1 (RS422/RS485) USBx1
	01450036	IT7100E	HMI-IT7100E – IT7000 series 10" standard touch screen	CE	Advanced configuration: 1024x600, Ethernet COM1 (RS422/RS485) COM2 (RS232) COM3 (RS485) USBx1
	01450028	IT7150E	HMI-IT7150E – IT7000 series 15" touch screen	CE	Advanced configuration: 1024x768, resistive screen, Ethernet COM1 (RS422/RS485) COM2 (RS232) COM3 (RS485) USBx1
	T2030015	SJK1149-E-61010	IT7000 configuration software dongle	–	

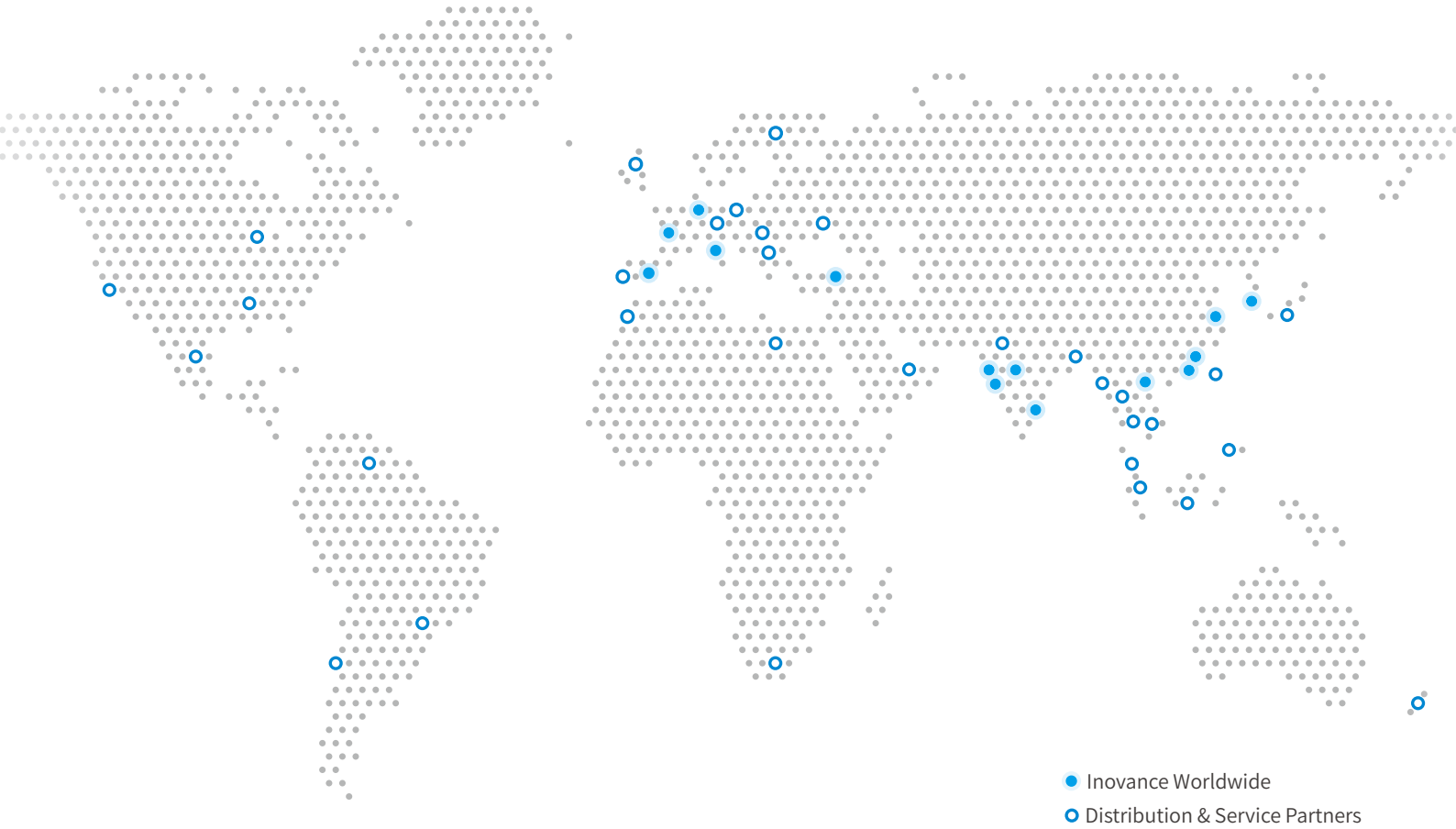
IT7000 Series Cable Selection

Series	Code	Model	Cable Port	Matching HMI Models	Matching PLC Models	Note for Use
IT7000 series cable accessory	1504AX53	ITT-H3U-CAB (cable length: 3 m)	<p>Usage: Direct communication between RS422 COM1 of IT7000 series (except IT7150E) HMI and RS422 round communication ports of Inovance H1U/H2U/H3U series PLC or RS422 round communication ports of Mitsubishi FX1N/2N/3U/3G.</p> <p>Port description: HMI end: DB9 female (RS422) PLC end: MD8 round male (RS422)</p>	<p>IT7000 series models (except IT7150E) Supported: IT7070S/IT7070T/IT7070E IT7100S/IT7100E</p> <p>Not supported: IT7150E; IT6000 series models (Hardware ports except the program download port of IT7150E use the pin definitions same as those of IT6000. The communication cable ITS-H2U-CAB is applicable both to IT6000 and IT7150E.)</p>	<p>1. Inovance H1U/H2U/H3U: RS422 round communication port 2. Mitsubishi FX1N/2N/3U/3G: RS422 round communication port</p>	<p>This type of cables are used to connect RS422 COM1 ports of IT7000 series touch screens to Inovance H1U/H2U/H3U RS422 communication ports or Mitsubishi FX1N/2N/3U/3G RS422 communication ports.</p>
	15042148	H2U-232-CAB (cable length: 3 m)	<p>Usage: RS232-to-RS422 cables used to directly connect RS232 COM2 of IT7000 series HMI to RS422 round communication ports of Inovance H1U/H2U/H3U series PLC or RS422 round communication ports of Mitsubishi FX1N/2N/3U/3G.</p> <p>Port description: HMI end: DB9 female (RS232) PLC end: MD8 round male (RS422)</p>	<p>IT7000: RS232 models Supported: IT7070T/IT7070E/IT7100E/IT7150E Not supported: IT7070S/IT7100S</p>	<p>1. Inovance H1U/H2U/H3U: RS422 round communication port 2. Mitsubishi FX1N/2N/3U/3G: RS422 round communication port</p>	<p>This cable is not recommended. Instead, customers are advised to use customized RS232-to-RS422 cables that can be purchased online. For pin definitions, see the user manual.</p> <p>1. For orders already placed, keep the current device communication solution. If cables have quality problems, contact the product line for replacement or change the cable to ITT-H3U-CAB in current and subsequent orders.</p> <p>2. This cable connects to RS232 COM2 of IT7000 series touch screens, while ITT-H3U-CAB connects to RS422 COM1. Pay attention to the protocol difference.</p>
	15041200	H2U-USB-CAB (cable length: 1.5 m)	<p>Usage: Downloading user programs of IT7000 series touch screens on a PC.</p> <p>Port description: PC end: USB 2.0/3.0 interface HMI end: Mini-USB interface</p>	<p>IT7000 series models</p>		<p>This type of cables connect to IT7000 Mini-USB ports for downloading and are incompatible with Type-B USB ports of IT6000 series.</p>



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Advancing industrial technology, for a better world

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IT7000 Series High-Performance General-Purpose HMI

Series	Code	Model	Description	Certification	Series
IT7000 series high-performance general-purpose HMI	01450038	IT7070S	HMI-IT7070S-IT7000 series 7" economical touch screen	CE	Economical configuration: 800 x 480, no SD card port, no Ethernet, no RS232 serial port, no panel power indicator COM1 (RS422/RS485) USB x 1
	01450030	IT7070T	HMI-IT7070T-IT7000 series 7" standard touch screen	CE	Standard configuration: 800 x 480, no SD card port, no Ethernet COM1 (RS422/RS485) COM2 (RS232) USB x 1
	01450039	IT7070E	HMI-IT7070E-IT7000 series 7" high-performance touch screen	CE	Advanced configuration: 800 x 480, Ethernet COM1 (RS422/RS485) COM2 (RS232) COM3 (RS485) USB x 1
	01450037	IT7100S	HMI-IT7100S-IT7000 series 10" economical touch screen	CE	Economical configuration: 1024 x 600, Ethernet COM1 (RS422/RS485) USB x 1
	01450036	IT7100E	HMI-IT7100E-IT7000 series 10" standard touch screen	CE	Advanced configuration: 1024 x 600, Ethernet COM1 (RS422/RS485) COM2 (RS232) COM3 (RS485) USB x 1
	01450028	IT7150E	HMI-IT7150E-IT7000 series 15" touch screen	CE	Advanced configuration: 1024 x 768, resistive screen, Ethernet COM1 (RS422/RS485) COM2 (RS232) COM3 (RS485) USB x 1
	72030015	SJK1149-E-61010	IT7000 configuration software dongle	-	

IT7000 Series Cable Selection

Series	Code	Model	Cable Port	Matching HMI Models	Matching PLC Models	Note for Use	Picture
IT7000 series cable accessory	1504AX53	IT7-H3U-CAB (cable length: 3 m)	<p>Usage: Direct communication between RS422 COM1 of IT7000 series (except IT7150E) HMI and RS422 round communication ports of Inovance H1U/H2U/H3U series PLC or RS422 round communication ports of Mitsubishi FX1N/2N/3U/3G</p> <p>Port description: HMI end: DB9 female (RS422) PLC end: MD8 round male (RS422)</p>	<p>T7000 series models (except IT7150E)</p> <p>Supported: IT7070S/IT7070T/IT7070E IT7100S/IT7100E</p> <p>Not supported: IT7150E, IT6000 series models</p> <p>(Hardware ports except the program download port of IT7150E use the pin definitions same as those of IT6000. The communication cable IT5-H2U-CAB is applicable both to IT6000 and IT7150E.)</p>	<ol style="list-style-type: none"> Inovance H1U/H2U/H3U: RS422 round communication port Mitsubishi FX1N/2N/3U/3G: RS422 round communication port 	<p>This type of cables are used to connect RS422 COM1 ports of IT7000 series touch screens to Inovance H1U/H2U/H3U RS422 communication ports or Mitsubishi FX1N/2N/3U/3G RS422 communication ports.</p>	
	15042148	H2U-232-CAB (cable length: 3 m)	<p>Usage: This type of cables are RS232-to-RS422 cables used to directly connect RS232 COM2 of IT7000 series HMI to RS422 round communication ports of Inovance H1U/H2U/H3U series PLC or RS422 round communication ports of Mitsubishi FX1N/2N/3U/3G.</p> <p>Port description: HMI end: DB9 female (RS232) PLC end: MD8 round male (RS422)</p>	<p>IT7000: RS232 models</p> <p>Supported: IT7070T/IT7070E/IT7100E/IT7150E</p> <p>Not supported: IT7070S/IT7100S</p>	<ol style="list-style-type: none"> Inovance H1U/H2U/H3U: RS422 round communication port Mitsubishi FX1N/2N/3U/3G: RS422 round communication port 	<p>This cable is not recommended. Instead, customers are advised to use customized RS232-to-RS422 cables that can be purchased online. For the details about the pin definitions, see the user manual.</p> <ol style="list-style-type: none"> For orders already placed, keep the current device communication solution. If the cables have quality problems in use, contact the product line for replacement, or change the cable to IT7-H3U-CAB in the current and subsequent orders. If the cables are changed in orders, modify the device communication scheme in a timely manner. This cable connects to RS232 COM2 of IT7000 series touch screens, while IT7-H3U-CAB connects to RS422 COM1 of IT7000 series touch screens. Pay attention to the protocol difference in the new communication solution. 	
	15041200	H2U-USB-CAB (cable length: 1.5 m)	<p>Usage: Downloading user programs of IT7000 series touch screens on a PC</p> <p>Port description: PC end: USB 2.0/3.0 interface HMI end: Mini-USB interface</p>	IT7000 series models		<p>This type of cables connect to IT7000 Mini-USB ports for downloading and are incompatible with Type-B USB ports of IT6000 series.</p>	