

CP101A



HMI Control Panel



CP101A

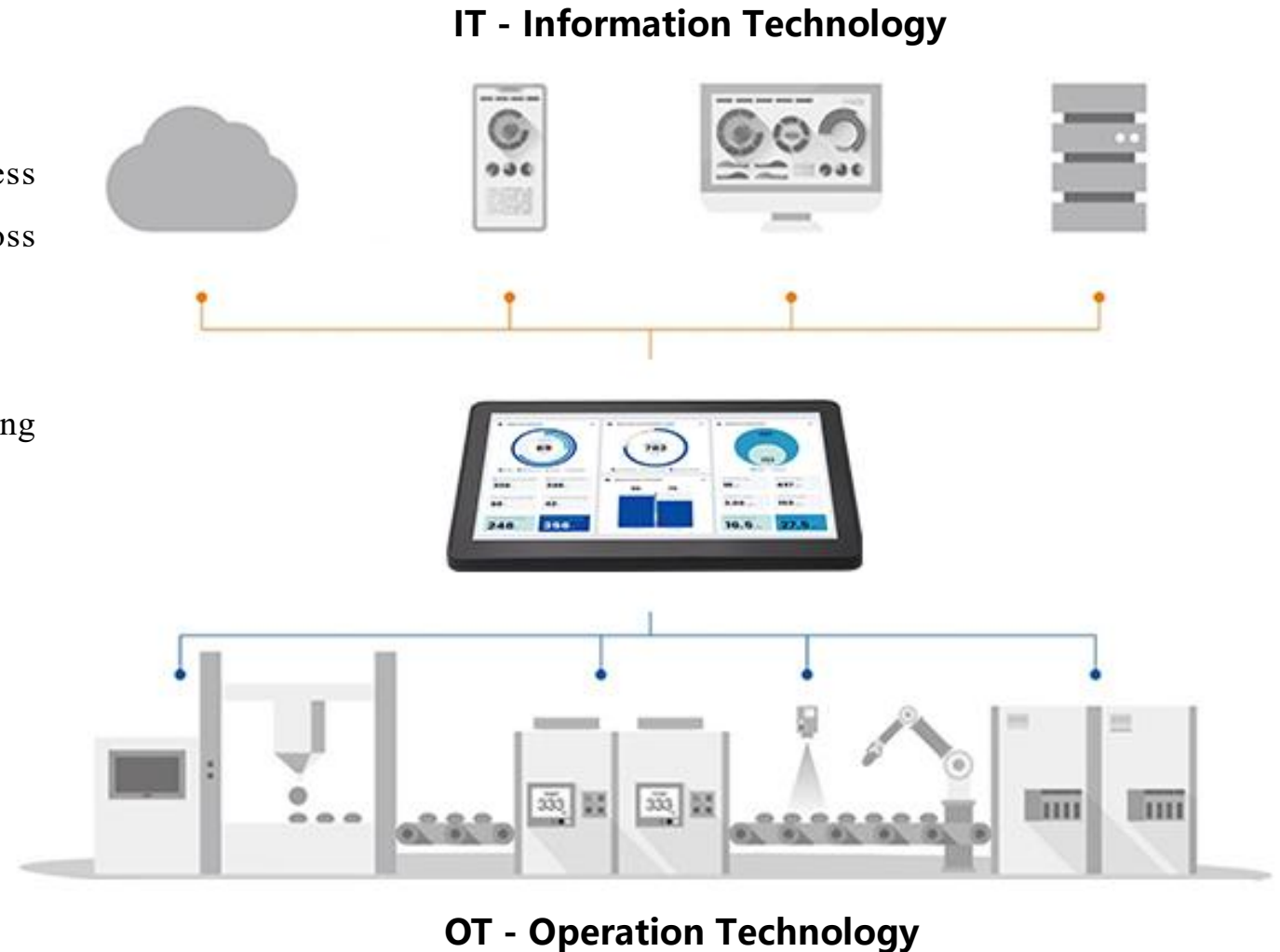
Main Features

- Supports common peripheral standard interfaces.
- Can be equipped with a variety of peripheral devices for centralized management and control.
- Customizable peripheral device drivers, such as I2C and SPI interface drivers.
- Based on the Android system, which allows for development using Android development tools.
- Supports rotary encoders and emergency button switches.
- Optional capacitive touch buttons and human presence sensors.
- Optional external trackball for operation control, LCD/OLED for external display.
- Provides development libraries for common controls, enhancing development efficiency.
- Clear and bright touch screen, operable even when fingers are wet or wearing latex gloves.
- Fanless system, high-quality electronic industrial components, durable and reliable.
- Easy to assemble and can be embedded into terminal devices.

HMI Control Panel

➤ Innovative Solutions for HMI

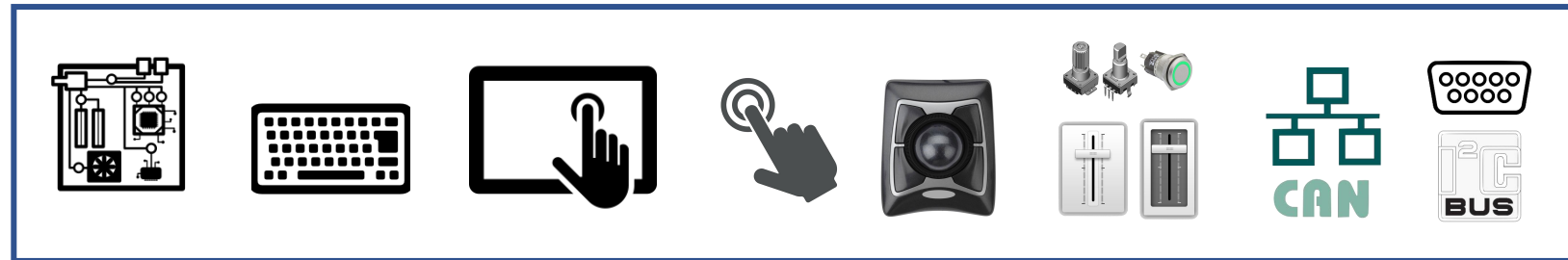
- Heng Yu offers customized HMI panels, ranging from single units to fully integrated production lines.
- Panels focus on adaptability and scalability, ensuring seamless integration into heterogeneous operational environments across different industries.
- High automation aids in on-site debugging and adapts to changing customer needs.



- Heng Yu Technology (HK) Limited
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➤ Customized HMI

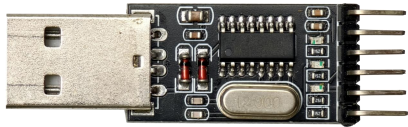
- Touch Screen: PCAP or Resistive
- Cover Glass: from 0.8 mm to 2.0 mm, can be of irregular shapes
- Gloves Thickness: up to 0.5 mm
- Various Control Interfaces:
 - RS232, USB, LAN, I2C, SPI, CAN BUS
 - SPI / I2C are done via USB adaptors
- Keys on top:
 - ✓ Cap Sense Keys,
 - ✓ Mechanical Switches(encoder, tact switch, rotation knobs)
 - ✓ Sliding bars
 - ✓ Emergency button



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➤ Technical Specification

Android System



USB to I2C adaptor
USB to SPI adaptor

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Features	CP101-S35	
Processor	CPU	ARM Rockchip RK3568, Quad-core Cortex-A55
	Frequency	Up to 2.0GHz
Primary Storage	32GB eMMC, 4GB RAM	
Display	Main Display Resolution	10.1" (1280 x 800), ratio 16:10
	Active Area	216.96 x 135.6 (mm)
	Luminance	350cd/m2
	Viewing Angle (R/ L/ U/ B)	85/ 85/ 85/ 85
	Touch Panel	PCAP, USB protocol
Ethernet	Controller	Gigabit Ethernet
I/O Interface	Main USB	USB 3.0,USB-C OTG
	UART	RS232/RS484 x 1
	GPIO	6
	I2C	1 (via USB to I2C adaptor)
	SPI	1 (via USB to SPI adaptor)
	CAN BUS	1
Options	Encoder/ Push button/ Emergency button/ Slider/ Trackball/ Touchpad/ Cap Sense/ OLED	
Power Adaptor	Input	Universal AC 100~240V, 50/60 Hz
	Output	DC +12V 5A
Environment	Storage Temperature	-25°C ~ 85°C
	Operation Temperature	-0°C ~ 40°C
	Operation Humidity	10% ~ 85%
Dimension	Panel (w/o stand)	247 x 171 x 28 (mm)