

Fully-Enclosed Open Frame Industrial Panel PC

15" Fully-Enclosed Aluminum Open Frame Panel PC

Model: HC150APC



This industrial panel PC features a fully-enclosed all-aluminum structure with fanless passive cooling and an open-frame (panel-mount) installation solution. The design emphasizes reliability, environmental adaptability, and expandability. Multiple CPU options paired with versatile I/O interfaces meet a wide range of application requirements. With embedded mounting and a narrow-bezel design, the unit installs easily and blends seamlessly into the cabinet for a clean, elegant appearance.

Highlights

Fanless Passive Cooling

Extruded aluminum rear cover with anodized finish dissipates heat efficiently and eliminates overheating shutdowns — ideal for industrial workshops and medical equipment.

Waterproof & Fog-Proof Touch Surface

The touch panel surface resists water and fog, preventing condensation in humid weather.

Intel Core or Android Platform

Five Intel Core option tiers from 3rd Gen i3 up to 10th Gen i7, or an optional Android board (RK3288 / RK3568 / RK3576 / RK3588) with 1 TOPS NPU.

Fully-Enclosed Dust Protection

Fully-enclosed all-aluminum design prevents dust ingress on the screen and inside the unit, running reliably in dusty factory environments.

G+G 10-Point Capacitive Touch

Responsive capacitive touch with over 50 million touches lifetime, ≥6H surface hardness and ≥85% light transmittance — operated by finger or conductive stylus.

Rich, Expandable I/O

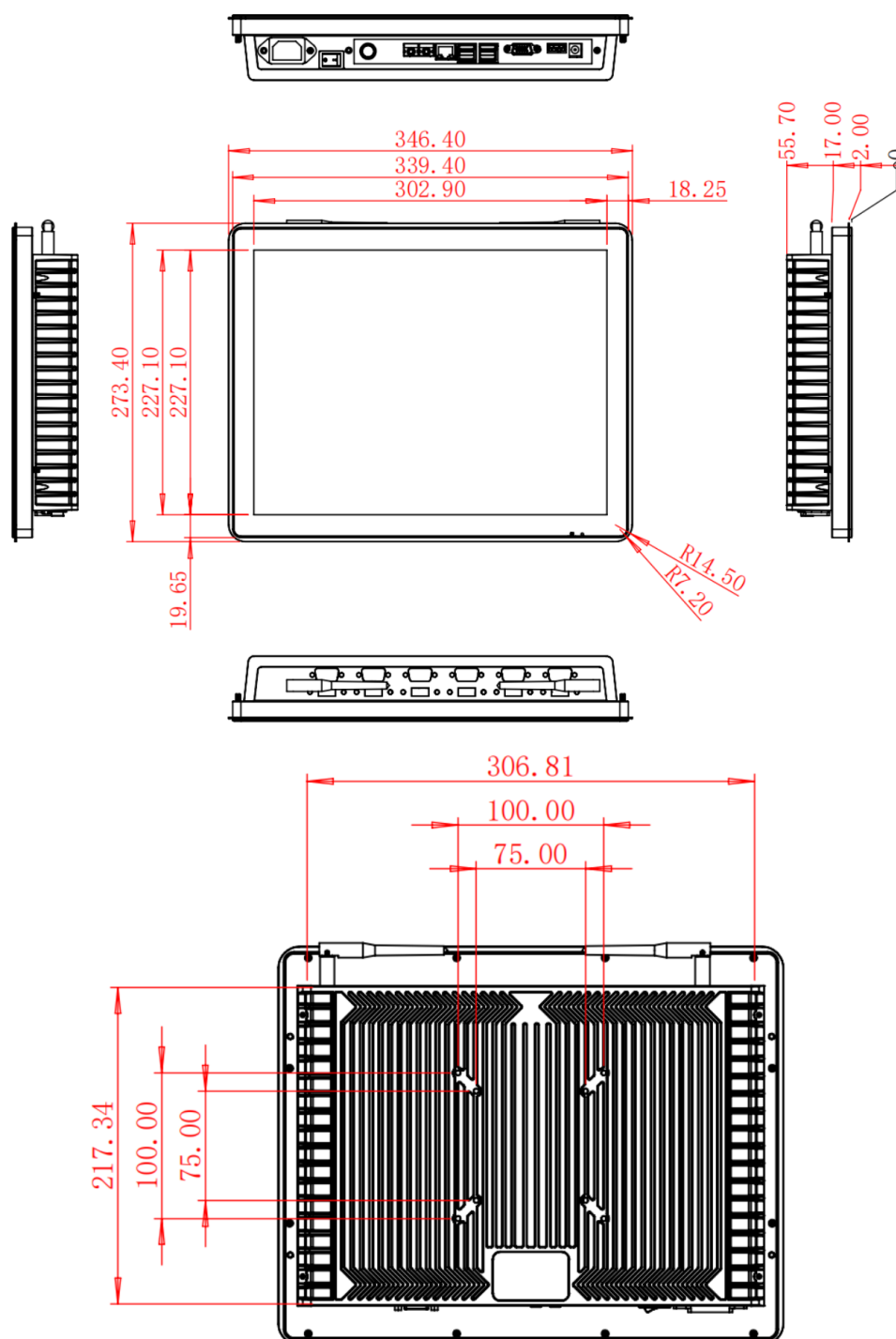
1×LAN, 2×COM, 4×USB, VGA, LINE OUT and MIC as standard; LAN expandable to 2, COM to 6 (RS232/RS485), USB to 6, plus wide-voltage, GPIO, LPT and aviation-connector options.

Product Specifications

GENERAL	
Model	HC150APC
Screen Size	15"
Overall Dimensions	346.4×273.4×55.7 mm
Cutout Dimensions	339.4×266.4 mm R7.2
Packing Dimensions	415×110×355 mm (reinforced carton)
Housing Material	Fully-Enclosed Aluminum Housing
WINDOWS SPECS (OPTIONAL)	
CPU	Intel Core™ 3rd Gen i3-3217UE / i5-3317U; 4th Gen i3-4010U / i5-4200U / i7-4500U; 6th Gen i5-6200U / 8th Gen i7-8550U; 10th Gen i5-10210U / i7-10510U
Memory	4GB DDR3L 1333MHz (upgradeable to 8GB / 16GB)
Storage	64GB SSD (upgradeable to 128GB / 256GB / 512GB; optional additional 2.5" HDD)
Graphics / Network	Intel HD Graphics integrated GPU; Realtek RTL8111F Gigabit Ethernet
Operating System	Windows 7 / 8.1 / 10, Linux
Wi-Fi (Optional)	Wi-Fi and Bluetooth (optional)
4G (Optional)	4G function (optional)
I/O Ports	1×LAN / 2×COM / 4×USB / 1×VGA / 1×LINE OUT / 1×MIC (LAN expandable to 2, COM to 6, USB to 6)
Speaker	Built-in 2W speaker
ANDROID BOARD (OPTIONAL)	
CPU	Quad-core 32-bit Cortex-A55, up to 2.0GHz; board options: RK3288 / RK3568 / RK3576 / RK3588
GPU	ARM Mali-G52 2EE GPU; supports OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1; built-in high-performance 2D hardware acceleration
NPU	1 TOPS computing power
Memory	2GB (optional 4GB / 8GB)
Storage	16GB (optional 32GB / 64GB / 128GB)
Multimedia	Supports 4K@60fps H.265/H.264/VP9 video decoding, 1080P@100fps H.265/H.264 encoding, and 8MP ISP; supports HDR and dual-screen mirroring
Display Interface	HDMI 2.0 up to 4K@60Hz; MIPI-DSI up to 1200×1920; 1×dual-8 LVDS + backlight interface up to 1920×1080; 1×IR receiver, 1×red LED, 1×green LED
Peripheral Interfaces	10/100M auto-negotiation Ethernet; 2.4G Wi-Fi and BT 4.1; 4×USB 2.0 host, 1×USB 3.0, 1×USB OTG; 2×TTL serial ports (TTL/RS232 optional), 1×debug serial port; 1×I2C, 4×GPIO; speaker interface up to two 8Ω 5W speakers; 1×Mic input, 1×headphone output, 1×audio output
LCD PANEL	
Resolution	1024 × 768
Aspect Ratio	4:3
Brightness	350 cd/m ²
Viewing Angle	Full viewing angle
Colors	16.7M
Contrast Ratio	1000:1 (Typ.) (transmissive), 72% NTSC

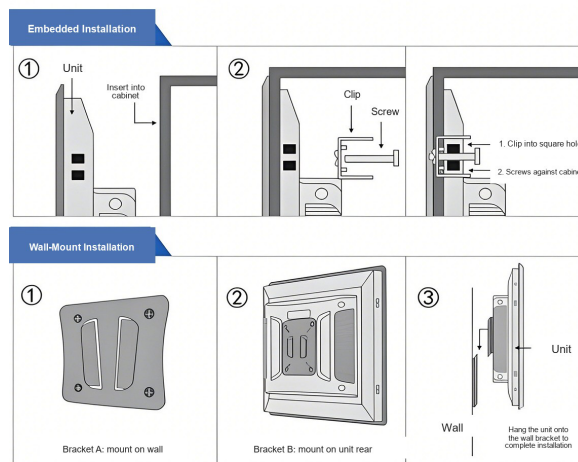
TOUCH SCREEN	
Touch Type	G+G capacitive 10-point touch screen
Input Method	Operated by finger or conductive stylus
Touch Life	>50 million touches
Max Resolution	4096 × 4096
Linearity Error	<2.5 mm
Light Transmittance	≥85%
Surface Hardness	≥6H
ENVIRONMENT & INSTALLATION	
Installation	Embedded, wall-mount, desktop, VESA standard support arm
Power Supply	12V 5A external power adapter
Operating Temperature	0–50 °C
Storage Temperature	-10–60 °C
Operating Current	≤5A
UPGRADE OPTIONS	
Memory	Upgradeable to 4GB / 8GB / 16GB
Storage	SSD upgradeable to 128GB / 256GB / 512GB; optional additional 2.5" HDD
Display	High-brightness option available
Appearance	Custom colors / silk-screen logo
Stand / Mount	Optional floor stand, hanging mount, or adjustable mount
I/O Ports	COM ports convertible from RS232 to RS485; additional COM, USB, LAN ports, wide-voltage module, aviation connector, LPT, GPIO and other interfaces available
WHAT'S IN THE BOX	
Accessories	Industrial Panel PC × 1 · Power adapter × 1 · Power cord × 1 · Warranty card × 1 · User manual × 1

Schematics



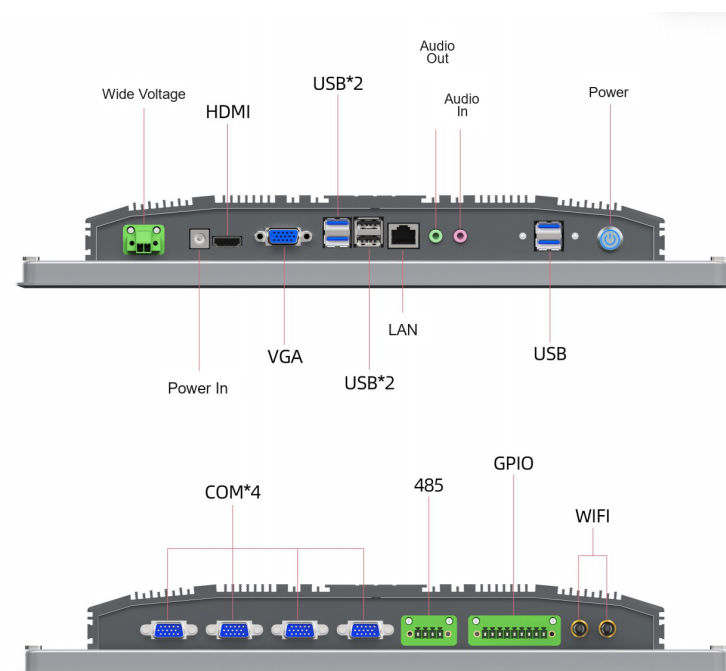
Dimension Drawings (Unit: mm)

Installation Methods



Embedded / desktop / wall mount / kickstand / open frame / arm mount

Terminal & I/O Interfaces



Standard I/O interface layout