Open Frame Industrial Panel PC

13.3" Sheet-Metal Backpack Open Frame Panel PC

Model: HC133ROF

The LFTouch open frame industrial panel PC is designed for industrial automation, power monitoring, smart factories and edge computing, meeting typical industrial requirements including 24/7 continuous operation, wide-temperature performance, dust and vibration resistance, and harsh electromagnetic environments. The enclosure combines a tempered glass front, aluminum-profile sides and a raised cold-rolled steel rear backpack, offering high structural strength and an optimized cooling airflow. It supports wall-mount, desktop and embedded installation, and has passed reliability tests including vibration testing, high/low-temperature aging and salt-spray testing. The rear backpack of this model can be redesigned to suit your application.

Highlights

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.

Open Frame, Flexible Mounting

Sheet-metal backpack design for embedded cabinet installation with clips, plus wall-mount, desktop, kickstand and VESA arm options; the rear backpack can be redesigned to suit your application.

Industrial Reliability

Wide-temperature 0–50 °C operation, 12V 5A external power, and vibration / aging / salt-spray tested for demanding field environments.

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.

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.

Customizable Appearance

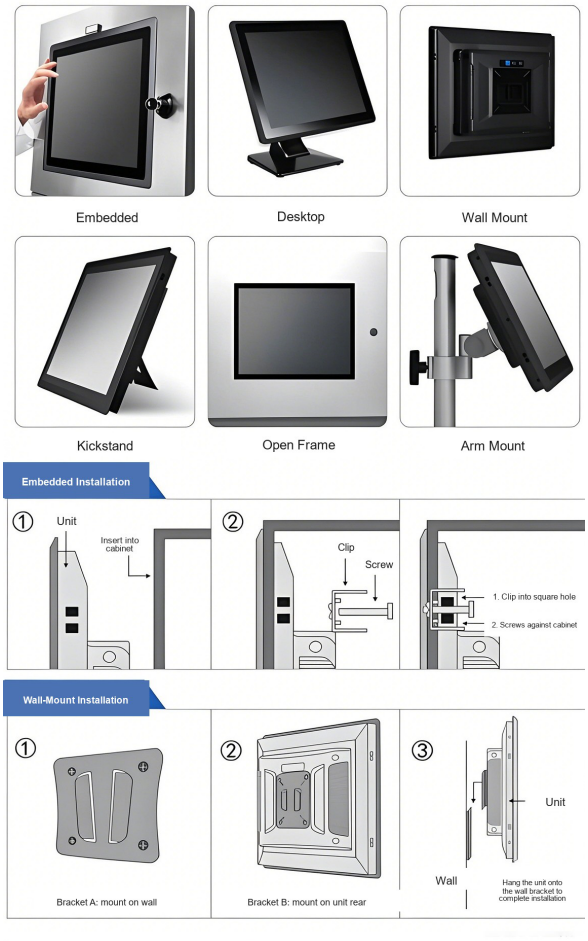
Custom colors and silk-screen logo available; high-brightness display option available on request.

Product Specifications

GENERAL	
Model	HC133ROF
Screen Size	13.3"
Overall Dimensions	339.4×213.4×49 mm
Cutout Dimensions	332.4×206.4 mm R7.2
Packing Dimensions	410×110×290 mm (reinforced carton)
Housing Material	Tempered glass front, aluminum-profile sides, raised cold-rolled steel rear backpack
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	1920 × 1080
Aspect Ratio	16:9
Brightness	350 cd/m²
Viewing Angle	Full viewing angle
Colors	16.7M
Contrast Ratio	1000:1 (Typ.) (transmissive), 72% NTSC

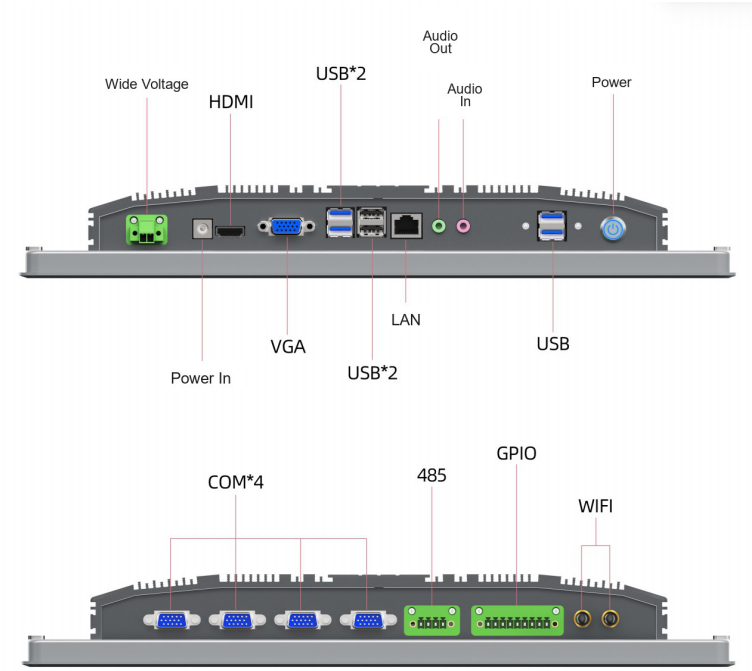
TOUCH SCREEN	
Touch Type	G+G capacitive 10-point touch screen
Input Method	Operated by finger or conductive stylus
Touch Life	>50 million touches
Max Resolution	4096 × 4096
Linearity Error	<2.5 mm
Light Transmittance	≥85%
Surface Hardness	≥6H
ENVIRONMENT & INSTALLATION	
Installation	Embedded, wall-mount, 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

Installation Methods



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

Terminal & I/O Interfaces



Standard I/O interface layout