

Datasheet/Industrial Tablet

LPC-FR121-W Series

Embedded 6/7/11/12/13 Generation Platform



Note: The picture shows that the product is different from the actual version and configuration. Please refer to the order information to select the appropriate model.

Product features:

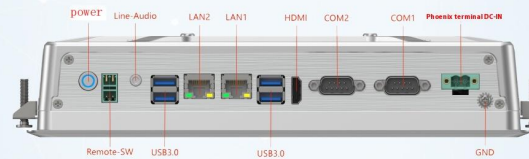
Industrial appearance, fully enclosed aluminum back cover, embedded panel, stable and strong, the overall body thickness is about 58.5mm; All aluminum alloy die-casting molding, surface tempered glass; Industrial grade 4:3 front screen design with resolution of 1024*768;

The display screen has a capacitive G G scheme, high 10-point touch accuracy, fast response, optional resistive touch screen; fanless design, dustproof, shockproof, and silent;

On-board embedded 6/7/11/12/13 generation and other embedded low-power X86 processors; Different CPU models can be customized to meet customer requirements, and the touch display scheme is optional. Support 2.5 inch hard disk or M.2KeyM hard disk installation; Standard 2 COM (optional 6COM); 2 network ports; Standard 2 USB3.0 interfaces;

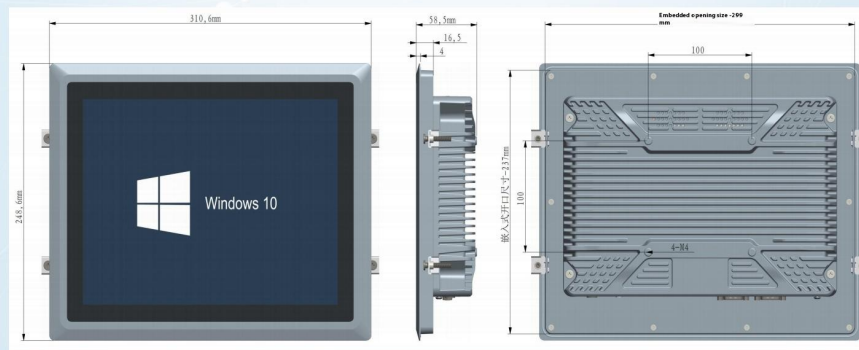
DC12V DC input, can be added to 9~36V wide voltage input; The whole machine has low power consumption, excellent performance and strong environmental adaptability. It can be widely used in machine vision, highway lane control, mechanical testing equipment, intelligent transportation, intelligent factory, intelligent power control, numerical control equipment manufacturing environmental monitoring, pharmaceutical equipment, wind power monitoring, tire vulcanization, industrial automation control and other industrial field fields.

Interface Location Diagram:



Note: The picture shows the location of the product interface. Due to the difference between the version and configuration and the actual situation, please refer to the ordering information to select the appropriate model!

Product size chart:



Embedded installation opening size: length 299mmX width 237mm

Product Specifications

System Configuration

Processor	Intel Low Power Consumption Embedded 6/7/11/12/13 Generation CPU Intel? Embedded
Chipset	6/7/11/12/13 Generation SOC 4G/8G/16G (the specific configuration memory of the whole machine shall be subject to the actual configuration)
Memory	

Display Interface	1 * HDMI interface		
10 interface	Switch plane interface	1 * HDMI/2 * USB3.0/2 * dry megaLAN/2 * COM (can be added to 6COM)/1 * power switch	
		1*2-in -1 audio interface/1 * 2PIN phoenix power input socket/1 * Remote-SW-remote switch	

Memory	Provide 1 M.2MKey2280(NVMEPCIeX4/SATASSD adaptive) slot, or 1 2.5-inch hard disk installation position 12.1 inch: 1024*768 resolution; MTBF:50000 hours, brightness 300cd/m optional
LCD	
Touch Screen	Capacitive G + G touch scheme/10-point touch, response time <8ms, touch accuracy ≤ 2mm, theoretically unlimited touch times 1 * M.2KeyE2230 slot (WiFi + Bluetooth module supported), optional GPIO * 1(10PIN)
Extended Interface	

Chassis Parameters		Features: aluminum alloy high-strength frame and cover	Material: high quality aluminum alloy + steel plate	Thermal design: fanless passive heat dissipation
Working humidity	10%-95% @ 40 °C non-condensing	Working environment	-10°C~ 60°C (-4°F~149°F)	
Storage environment	-40°C~ 80°C (-40°F~176°F)	Power Supply	DC12V input, can be added to 9~36V wide voltage input TBD mm (bare metal)	
Installation method	Embedded/wall mount/desktop stand	Dimensions (W * H * D)		
Weight (kg)	Net weight ~ 4KG/gross weight ~ 4.5KG	Operating system	6/7 Generation: Windows7/10/11/Linux	
Boot mode	Switch start, support call self-start		11/12/13 Generation: Windows11/Linux	

Ordering Information

Model	Description
	12.1 inch series
	LPC-FR121-W-O-N5095
	LPC-FR121-W-O-J6412
	LPC-FR121-W-O-6500U
	LPC-FR121-W-O-7200U
	LPC-FR121-W-O-1235U
	LPC-FR121-W-O-1335U

Product model naming rules

(1)*LPC* stands for Product Line Category;

(2)*FR121* refers to the screen reference: the last three digits are the screen size, the 121 represents 12.1 inches, the first digit 1 is the square screen, and the k is the widescreen; The second R is capacitive touch, and Z is relative touch;

(3)*-W* refers to the slotting method of the front frame, -W is the external embedded type, and -N is the embedded type; (4)*-O* refers to the rear bulge, -O is a fully enclosed aluminum alloy bulge, and -C is a sheet metal bulge with heat dissipation holes; (5) *-XXXX* represents the onboard CPU model; (6) reserved for memory, hard disk, power adapter selection and use.

Packing list

Name	Quantity	Name	Quantity
Bare Metal	1	12V adapter	1
Power cord	1	Screw Pack	1
Hanging Ear	6	Hard Drive Bracket	1 (optional)

Intelligent IOT Industrial Control Board

Intelligent Internet of Things Machine

Industrial Tablet PC

Industrial flat panel display