

27.0" TFT Fanless Touch Panel Computer with Intel® Alder Lake-S H610 chip, Support LGA1700 Processor(Max 35W)

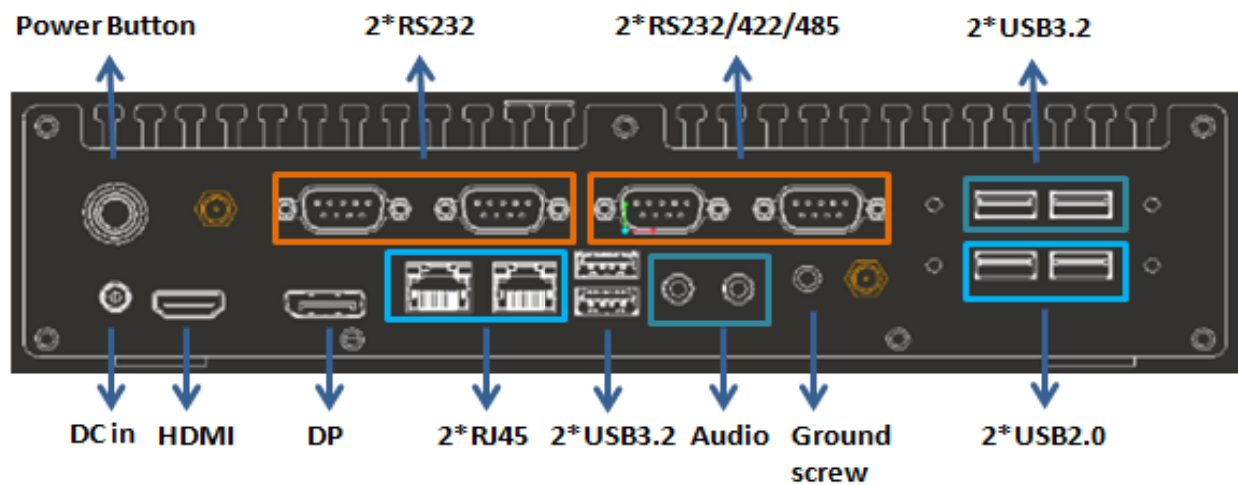
Features

1. 27.0"300 nits TFT LCD with LED backlight
2. LG in-cell 10-points Multi Capacitive Touch
3. A true Flatand Slim Design, Clear Image, support Cover-Glass Elimination
4. Design for easy Panel Mount, VESA Mount installation
5. 12-19V DC-input Support, with Electrical Over Stress(EOS), OVP design



intel. FC CE RoHS COMPLIANT

I/O Diagram



Specifications

Display

- NEMA 4 rugged protection, metal front bezel
- 27.0" With LED Backlight
- 300 nits
- 16.7m display color
- 1920 x 1080 @60Hz resolution
- 178°/178° viewing angle (H/V)
- 0.1038 x 0.1038mm pixel pitch
- 16:9 aspect ratio
- 1000:1 contrast ratio
- 13ms response time

Case

- Aluminum panel
- Iron case
- White color

Touch Screen

- Projected capacitive type (LG in-cell Touch)
- 597.888 x 336.312mm ±0.2mm active range
- Surface Hardness ≥3H (JIS-5400)
- Support High Touch Performance
- Support Strengthened Polarizer for in-TOUCH
- Support High Picture Quality
- Support Low Reflection / Deep Black
- Support No deterioration of PQ caused by TOUCH Film
- Support Low color Shift
- Support Stable Touch without Flash

Main System

- Intel® Alder Lake-S H610 Chip
- Intel® LGA1700 Socket 12th /13th processor (Max 35W)
- 2* DDR4 SO-DIMM (Max 64GB)

- Spray paint coating requirement

Storage

- 1* 2.5" SATA HDD
- 1 * M.2 M key (2242/2280,PCI-Ex4 Gen.3 Interface)

I/O Connector

- 4* USB3.2(Gen.1)
- 2* USB2.0
- 2* RS232/422/485 + 2*RS232
- 1* HDMI + 1*DP
- 1* Line-out + 1* MIC
- 2* RJ45(2* REALTEK RTL8111H GbE)
- 1* 12-19V DC Jack
- 1* Power button

Power Consumption

63.5W

Compliance

CE, FCC, Option

Temperature

- Operating Temperature: -10 ~ 50° C
- Storage Temperature: -20 ~ 70° C

- 256MB SPI Flash ROM
- Support 2* 3W Speaker
- Watchdog Timer 256 levels, 0~255 sec.
- OS Support Windows 10 / 11/Linux

Expansion

- 1* M.2 E key (2230,CNVi/PCI-Ex1/USB2.0 interface) for WIFI

Power Source

- AC version: 100~240V AC-DC 120W power adapter or
- DC version: 12VDC with over current protection fuse

Dimensions

611.20x359.18x81.00mm

Safety

- Shock: 1ms duration
- Vibration: 5~500Hz/1 Grms

Warranty

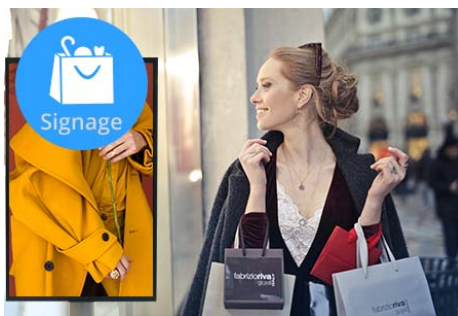
2 Years Limited Warranty (Panel and Touch is only Warranty 1 Year)

Mechanical Drawings (Unit=mm)

Standard Accessories

Part Number	Description
HPC270SC-FPH610	HPC270SC-FPH610
Change according to shipping area	Power cord
	120W AC-DC Adapter

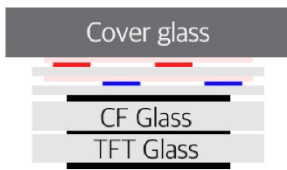
Application



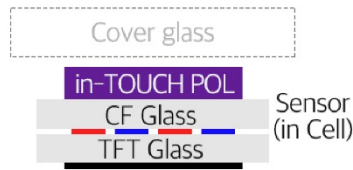
Why LG in-TOUCH

01 Strengthened Polarizer for in-TOUCH

Conventional



in-TOUCH



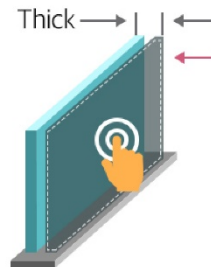
- By eliminating Cover Glass allow Touch TV Design “Slim & Light”
- Extra mechanical design is required for attaching thick and heavy C/G

- Enhanced Surface Hardness of Polarizer

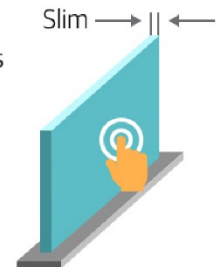
	Normal POL	in-TOUCH POL
Pencil scratch hardness	2H	4H
Abrasion Resistance 1)	10cycles	800cycles

1) Based on testing with 'Steel wool'

Conventional



in-TOUCH



02 High Touch Performance

- Touch & Display Matching Accuracy

Conventional



in-TOUCH

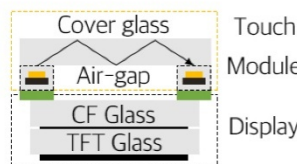


	IR Spread	in-TOUCH(43")
Accuracy	3.8mm+a	<2.0mm

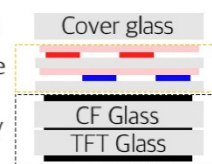
03 Simple SCM & Assembly

- Simplified Assembly & Supply Chain
- Touch Module + Touch Board + Display
- Mechanical structure simplified for assembly

FTIR

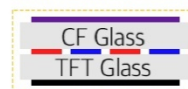


GFF



in-TOUCH

“Touch = Display”



04 High Picture Quality

- Low Reflection / Deep Black
- No deterioration of PQ caused by Touch Film
- Wide Viewing Angle
- Low Color Shift
- Stable Touch without Flash



Support High Touch Performance

支持高性能觸摸（靈敏度）

Support Strengthened Polarizer for in-TOUCH

支持內置偏光片

Support High Picture Quality

支持高畫質

Support Low Reflection / Deep Black

支持低反射/深黑色

Support No deterioration of PQ caused by TOUCH Film

支持：不會因帶有觸摸而導致顯示質量下降

Support Low color Shift

支持更低的顏色變化

Support Stable Touch without Flash

支持觸摸時無閃屏