

NOVAKON

INDUSTRIAL PANEL PC

Slim Bezel Series

NFP SERIES 12.1" | 15.6"



**1080p
FULLHD**



J6412 / N97/
i5-1335U



IP66



Modular
Design



True Flat
Touch



Aluminium
Housing



Slim
Bezel



UV/IR
Protection
(Option)

Elevate your automation with the NOVAKON NFP Series—the premier Slim Bezel Industrial Panel PC

The NOVAKON NFP Series offers compact 12.1" and 15.6" Industrial Panel PCs featuring striking slim-bezel, fanless architecture, and true-flat touch screen. Engineered as a premier Panel PC for industrial automation, it boasts a rugged IP66-compliant front panel and a responsive, 7H anti-scratch projected capacitive touch surface. Built for adaptable performance with wide-ranging power input, it scales to your needs—choose the efficient Intel® Alder Lake-N N97 or the powerful Intel® Core™ i5-1335U processor. The NFP Series perfectly blends modern elegance with industrial reliability.

Industrial Panel PC for Automation Applications

Industrial Panel PC
NFP SERIES

Model No.		NFP-121P01	NFP-156P01	NFP-121P02	NFP-156P02	NFP-121P05	NFP-156P05
System	CPU	Intel® Celeron® J6412 2.0GHz, quad-core, 4 threads, up to 2.6GHz		Onboard Intel® Alder Lake-N Processor N97 2.0GHz, quad-core, 4 threads, (up to 3.6GHz)		Intel® Core™ i5-1335U Processor, 10 cores,12 threads, up to 4.6 GHz	
	System Chipset	SoC					
	System Memory	2 x SO-DIMM, DDR4 3200MHz, up to 32GB		1 x SO-DIMM, DDR5 4800MHz, up to 16GB		2 x SO-DIMM, DDR5 4800MHz, up to 64GB	
Storage	SSD / On Board Flash	1 x 2280 M.2 M-Key (PCIe x 2, SATA 6Gb/s)		1 x 2280 M.2 B key (SATA/PCIe x1)		1 x 2280 M.2 M-Key (PCIe Gen4x4, SATA 6Gb/s)	
Expansion	Expansion Slot	1 x Full-size mini PCIe with SIM slot		1 x M.2 E key (PCIe x1, USB 2.0), 2230		1 x Full-size Mini PCIe with SIM slot 1 x 2230 M.2 E-Key	
Display & Touch Screen	LCD Size	12.1" TFT-LCD	15.6" TFT-LCD	12.1" TFT-LCD	15.6" TFT-LCD	12.1" TFT-LCD	15.6" TFT-LCD
	Luminance (cd/m²)	600 (Typ.)	350 (Typ.)	600 (Typ.)	350 (Typ.)	600 (Typ.)	350 (Typ.)
	Backlight Lifetime (hrs)	50000					
	Contrast	1000:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	800:1 (Typ.)
	Max. Colors	16.7M					
	Max. Resolution	1280x800	1920x1080	1280x800	1920x1080	1280x800	1920x1080
	Viewangle (H°/V°)	178 / 178 (Min.)					
	Touch Type	Projected Capacitive Touch					
	Touch with UV/IR Cut & Anti-Fog film	Option					
	Touch Interface	USB					
I/O Interface	Light Transmission (%)	Projected Capacitive Touch: over 84%					
	Audio	1 x Line Out					
	HDMI 2.0	2		1		1	
	Display Port	-		1		1	
	LAN (RJ45)	2 x GbE		2 x 2.5GbE		2 x 2.5GbE	
	Power	1 x 2 pins terminal block for external power switch 1 x 3 pins terminal block power connector 1 x power switch on/off					
	Serial	1 x DB9 (RS-232/422/485 & RI/5V/12V) 1 x DB9 (RS-232/422/485) 2 x DB9 (RS-232)		1 x DB9 (RS-232/422/485 & RI/5V/12V) 1 x DB9 (RS-232)		3 x DB9 (RS-232/422/485 & 5V/12V) 1 x DB9 (RS-232 & 5V/12V)	
	USB	4 x USB 3.2 Gen 1, 1 x USB 2.0		2 x USB 3.2 Gen 1, 2 x USB 3.2 Gen 2, 2 x USB 2.0		2 x USB 3.2 Gen 2, 1 x USB 2.0	
	Type C	N		N		2	
	Speaker	2 X 2W Speaker					
Power	Power Input	DC 9~36V				DC 9~24V	
	Power Consumption	90W					
Environment	Operating Temp.	0~50° C (32~122° F)					
	Operating Humidity	10 to 90% (non-condensing)					
	Storage Temp.	-20~60° C (-4~140° F)					
	Operating System	Windows 10 IoT,Windows 11 IoT, Debian 11					
	TPM	TPM 2.0					
Mechanical	Certification	CE / FCC CLASS A					
	Construction	Aluminum front bezel and steel chassis					
	IP Rating	Front Panel IP66					
	Mounting	Panel Mount / VESA Mount					
	Ambient Light Sensor	N					
	Dimension(mm)	330(W) x 229(H) x 74.2(D)	418(W) x 268(H) x 74.4(D)	330(W) x 229(H) x 74.2(D)	418(W) x 268(H) x 74.4(D)	330(W) x 229(H) x 74.2(D)	418(W) x 268(H) x 74.4(D)
Net Weight(Kgs)	4.2	5.2	4.2	5.2	4.2	5.2	

