

# UniStream™ HMI Panel

## Technical Specifications USP-070-B10 and USP-104-B10

UniStream™ HMI Panels provide the foundation of an all-in-one HMI + PLC controller. To create an all-in-one device, snap a UniStream™ CPU-for-Panel and one or more Uni-I/O™ or Uni-COM™ modules onto the back of the panel.

Installation Guides are available in the Unitronics Technical Library at [www.unitronics.com](http://www.unitronics.com).

Power Supply	USP-070-B10	USP-104-B10
Input voltage	12VDC or 24VDC	
Permissible range	10.2VDC to 28.8VDC	
Max. current consumption	1.5A@12VDC, 0.75A@24VDC	1.62A@12VDC, 0.81A@24VDC

Display	USP-070-B10	USP-104-B10
LCD type	TFT	
Backlight type	White LED	
Luminous intensity (brightness)	Typically 400 nits (cd/m <sup>2</sup> ), at 25°C	
Backlight longevity	Typically 50,000 hours <sup>(1)</sup>	
Resolution (pixels)	800 x 480 (WVGA)	800 x 600 (SVGA)
Viewing area	7"	10.4"
Color support	65,536	
Surface treatment	Anti-glare	
Touch screen	Resistive Analog	
Actuation force (min)	> 80 g (0.176 lb)	

System	
Processor	32 bit, 800MHz RISC Processor, with Graphic Accelerator
Internal memory	RAM: 512 MB ROM: 3GB system memory 1GB user memory
External memory	microSD or microSDHC card Size: up to 4GB Data Speed: up to 200Mbps

<b>Audio</b> <sup>(2)</sup>	
Internal speaker	Audio compatibility: mono MP3 files. Frequency range: 500Hz to 20KHz
External audio	Audio compatibility: stereo MP3 files. Interface: 3.5mm Audio-out jack - use shielded audio cable of up to 3 m (9.84 ft). Impedance: 32Ω No isolation

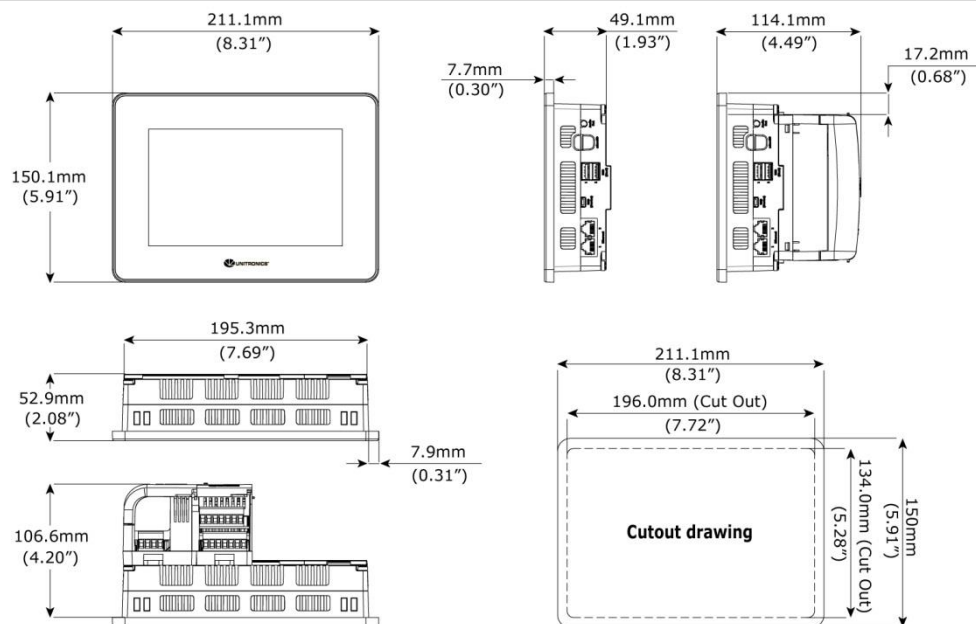
<b>Communication</b>	
<b>Ethernet port</b>	
Number of ports	2
Port type	10/100 Base-T (RJ45)
Auto crossover	Yes
Auto negotiation	Yes
Isolation voltage	500VAC for 1 minute
Cable	Shielded CAT5e cable, up to 100 m (328 ft)
<b>USB device</b> <sup>(3)</sup>	
Number of ports	1
Port type	Mini-B
Data rate	USB 2.0 (480Mbps)
Isolation	None
Cable	USB 2.0 compliant; < 3 m (9.84 ft)
<b>USB host</b>	
Number of ports	2
Port type	Type A
Data rate	USB 2.0 (480Mbps)
Isolation	None
Cable	USB 2.0 compliant; < 3 m (9.84 ft)
Over current protection	Yes

<b>On-board I/O or COM modules</b> <sup>(4)</sup>	<b>USP-070-B10</b>	<b>USP-104-B10</b>
Number of modules	Up to 3	Up to 5 I/O Modules (or up to 4 COM modules)

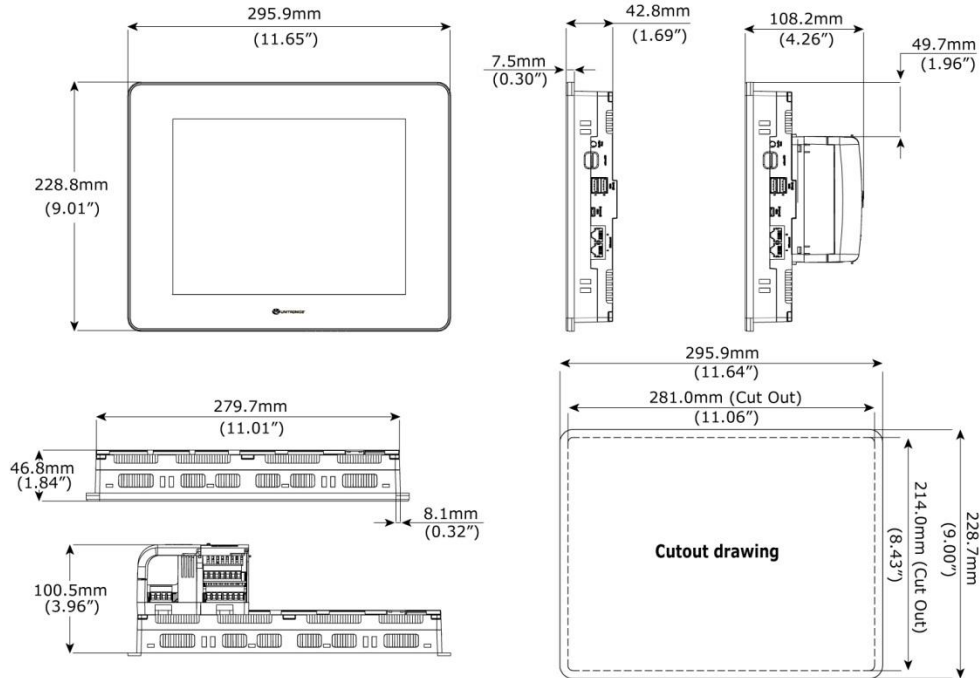
Environmental	
Protection	Front face <sup>(2)</sup> : IP65/66, NEMA4X Rear side: IP20, NEMA1
Operating temperature	-20°C to 55°C (-4°F to 131°F)
Storage temperature	-30°C to 70°C (-22°F to 158°F)
Relative Humidity (RH)	5% to 95% (non-condensing)
Operating Altitude	2,000 m (6,562 ft)
Shock	IEC 60068-2-27, 15G, 11ms duration
Vibration	IEC 60068-2-6, 5Hz to 8.4Hz, 3.5mm constant amplitude, 8.4Hz to 150Hz, 1G acceleration

Dimensions	USP-070-B10	USP-104-B10
Weight	0.7 Kg (1.54 lb)	1.45 Kg (3.20 lb)
Size	Refer to the images below	

**USP-070-B10 7" Panel**



## USP-104-B10 10.4" Panel

**Notes:**

1. Panel's longevity is the operating time after which the brightness drops to 50% of its original level.
2. The audio outlet seal must be inserted in the outlet in order to comply with IP66 or NEMA4X.
3. The USB device port is used to connect the device to a PC.
4. The panel back is molded into a DIN rail-like structure which provides the physical support for a UniStream™ CPU-for-Panel, Uni-I/O™ modules and Uni-Com™ modules. Details are provided in the UniStream™ HMI Panel installation guides.

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