

# PixelNet 2.0<sup>®</sup>

## Video Wall Processor

Easily visualize and control video walls that span multiple rooms, throughout a campus or across a city.

- **JITC Certified**
- **Canvas web client mimic**
- **100% redundant Layer 2 Infrastructure System**
- **Integrated KVM**
- **Unlimited video walls of any size and display.**
- **Unlimited 4K inputs**
- **IP Streams, Web & VNC support**



Native support for 4K video, fiber network. Video and audio for a scalable distribution system.

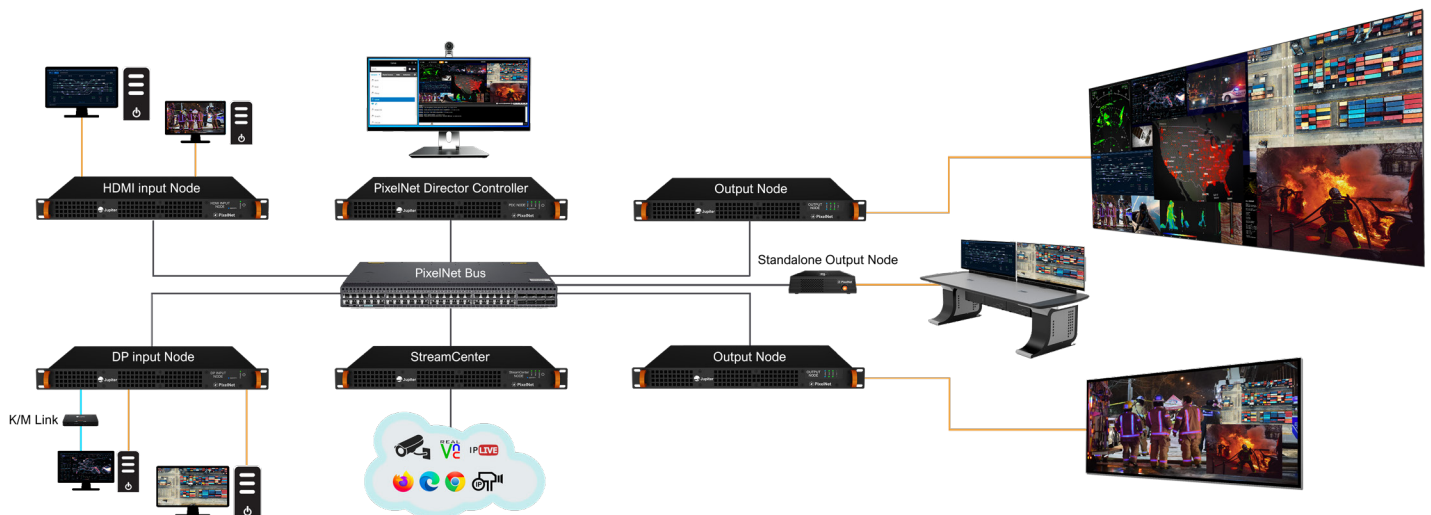


Supports an unlimited number of inputs and displays in multiple locations.



Enable real-time HD or 4K information display to a virtually unlimited number of screens at sites spanning a building, campus, or a continent.

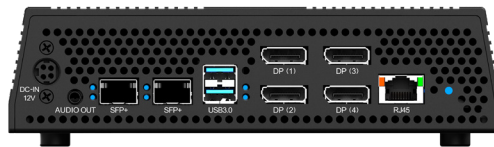
## Architecture of a PixelNet Installation





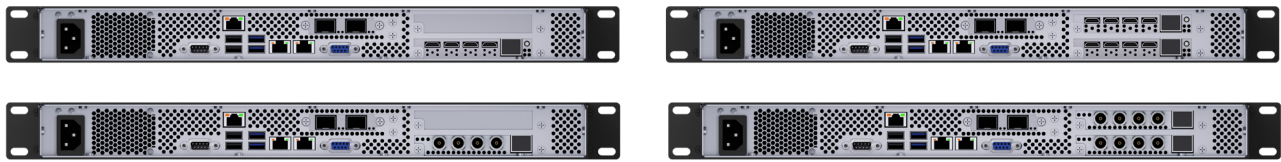
## PixelNet 2.0 PDC Server Specifications

Form Factor	1U
Dimension	19.0" W x 17.0" D x 1.75" H (482.6mm x 431.8mm x 44.5mm)
Power Consumption	240w
Control Platform	Direct PDC/Canvas
CPU Processor	Intel Xeon Processor Bronze 3204
Drive	250 SSD
Memory	16 GB RAM
Input Devices	2x USB 3.0 ports, 2x USB 2.0 ports
PN Bus Interface	1x 10G SFP+ ports
Network Interface	2x 1G RJ45
Operating System	Windows LTSC
API	TCP
Video Output Interface	VGA
Output Resolutions	1920 x 1080
Regulatory Certifications	cULus, FCC, TAA, CE, RCM, VCCI, BSMI, WEEE



## PixelNet 2.0 Output Node Specifications

	V2-8	V2-4	V2-SA
Form Factor	1RU	1RU	Desktop
Dimension	19.0" W x 17.0" D x 1.75" H (482.6mm x 431.8mm x 44.5mm)	19.0" W x 17.0" D x 1.75" H (482.6mm x 431.8mm x 44.5mm)	7.6" W x 10.2" D x 1.9" H (193.6mm x 259.1mm x 49.4mm)
Power Consumption	240w	240w	120w
Control Platform	Direct PDC/Canvas		
CPU Processor	AMD Ryzen Embedded 1807B		
Input Devices	4x USB 2.0 ports	2x USB 2.0 ports	
PN Bus Interface	2x 10G SFP+ ports		
Operating System	Embedded Linux		
Video Output Interface	DisplayPort		
Output Resolutions	8x 1920 x 1080 @ 60Hz 4x 3840 x 2160 @ 30Hz 2x 3840 x 2160 @ 60Hz	4x 1920 x 1080 @ 60Hz 2x 3840 x 2160 @ 30Hz 1x 3840 x 2160 @ 60Hz	4x 1920 x 1080 @ 60Hz 2x 3840 x 2160 @ 30Hz 1x 3840 x 2160 @ 60Hz
Audio	2x 3.5 mm TRS	3.5 mm TRS	3.5 mm TRS
KVM	Workstations, Web Browser and VNC		
Regulatory Certifications	cULus, FCC, TAA, CE, RCM, VCCI, BSMI, WEEE	cULus, FCC, TAA, CE, RCM, VCCI, BSMI, WEEE	cULus, FCC, TAA, CE, WEEE



# PixelNet 2.0 Input Node Specifications

	HDMI-8	HDMI-4	SDI-8	SDI-4
<b>Model Names</b>	PN2 INPUT NODE HDMI-8/NE	PN2 INPUT NODE HDMI-4/NE	PN2 INPUT NODE SDI-8/NE	PN2 INPUT NODE SDI-4/NE
<b>Form Factor</b>	1RU			
<b>Dimension</b>	19.0" W x 17.0" D x 1.75" H (482.6mm x 431.8mm x 44.5mm)			
<b>Power Consumption</b>	240w			
<b>Control Platform</b>	Direct PDC/Canvas			
<b>CPU Processor*</b>	AMD Ryzen Embedded 1807B			
<b>Input Devices</b>	2x USB 3.0 ports, 2x USB 2.0 ports			
<b>PN Bus Interface</b>	2x 10G SFP+ ports			
<b>Operating System</b>	Embedded Linux			
<b>Video Input Interface</b>	HDMI	HDMI	SDI	SDI
<b>Input Resolutions</b>	8x @ 1920 x 1200 @ 60Hz 4x @ 3840 x 2160 @ 30Hz 2x @ 3840 x 2160 @ 60Hz	4x @ 1920 x 1200 @ 60Hz 4x @ 3840 x 2160 @ 30Hz 2x @ 3840 x 2160 @ 60Hz	8x @ 1920 x 1200 @ 60Hz 4x @ 3840 x 2160 @ 30Hz 2x @ 3840 x 2160 @ 60Hz	4x @ 1920 x 1200 @ 60Hz 2x @ 3840 x 2160 @ 30Hz 2x @ 3840 x 2160 @ 60Hz
<b>Audio</b>	-			
<b>KVM</b>	Up to 4 computers with K/M Links			
<b>Regulatory Certifications</b>	cULus, FCC, TAA, CE, RCM, VCCI, BSMI, WEEE			

\*All JITC compliant Input Nodes are equipped with Intel Xeon Processor Silver 4210R



# PixelNet 2.0 Input Node Specifications Continued

	DP-4	DP-2
<b>Model Name</b>	PN2 INPUT NODE DP-4/NE	PN2 INPUT NODE DP-2/NE
<b>Form Factor</b>	1RU	
<b>Dimension</b>	19.0" W x 17.0" D x 1.75" H (482.6mm x 431.8mm x 44.5mm)	
<b>Power Consumption</b>	240w	
<b>Control Platform</b>	Direct PDC/Canvas	
<b>CPU Processor*</b>	AMD Ryzen Embedded 1807B	
<b>Input Devices</b>	2x USB 3.0 ports, 2x USB 2.0 ports	
<b>PN Bus Interface</b>	2x 10G SFP+ ports	
<b>Operating System</b>	Embedded Linux	
<b>Video Input Interface</b>	DisplayPort	
<b>Input Resolutions</b>	4x @ 1920 x 1200 @ 60Hz 2x @ 3840 x 2160 @ 60Hz	2x @ 1920 x 1200 @ 60Hz 2x @ 3840 x 2160 @ 60Hz
<b>KVM</b>	Up to 4 computers with K/M Links	
<b>Regulatory Certifications</b>	cULus, FCC, TAA, CE, RCM, VCCI, BSMI, WEEE	

\*All JITC compliant Input Nodes are equipped with Intel Xeon Processor Silver 4210R



## PixelNet 2.0 K/M Link Specifications\*

Form Factor	Utility
Dimension	"2.9" W x 1.4" D x 0.5" H (73.7mm x 35.6mm x 12.0mm)"
Power Consumption	200mW
Control Platform	Direct PDC/Canvas
CPU Processor	BCM2835
Memory	512 MB
Input Devices	2x micro USB port
Operating System	Embedded Linux
Regulatory Certifications	FCC, CE, WEEE

\*Using K/M requires 4K60/HD60 system configuration only



## PixelNet 2.0 StreamCenter Specifications

Form Factor	1U
Dimension	"19.0" W x 17.0" D x 1.75" H (482.6mm x 431.8mm x 44.5mm)"
Power Consumption	240w
Control Platform	Direct PDC/Canvas
CPU Processor	Intel Xeon Processor Silver 4210R
Drive	250 SSD
Memory	16 GB RAM
Input Devices	2x USB 3.0 ports, 2x USB 2.0 ports
PN Bus Interface	2x 10G SFP+ ports
Network Interface	2x 1G RJ45
Operating System	Linux (Ubuntu 20.04 or CentOS 7)
Streaming Video Codecs support	H.264, H.265, MPEG4 (sources)
Streaming Channels	16x 1920 x 1080 @ 30Hz 8x 1920 x 1080 @ 60Hz 4x 3840 x 2160 @ 30Hz 2x 3840 x 2160 @ 60Hz
Web Browser	16x Web Browsers (with KVM)
VNC	16x VNC (with KVM)
Regulatory Certifications	cULus, FCC, TAA, CE, RCM, VCCI, BSMI, WEEE