PixelNet®
Pixel 3G-SDI Input Node

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Designed for broadcast applications, or any installation that requires the simplicity of SDI signal management, the 3G-SDI Input Node is designed to support 3G-, HD-, and SD-SDI signals—3G (1080 p), HD (720 p, 1080i), and SD (480i/p, 576i/p) at 50 or 60 fps.

The 3G-SDI node provides a re-clocked loop-through SDI output connector for distribution of the signal to downstream devices. This is an audio-capable input node that supports stereo and 5.1 encoding formats at 48KHz and 44.1KHz, 24 bit sampling rate.

Part of the PixelNet Distributed Display Wall System

PixelNet is simplicity itself. A PixelNet network is comprised of input nodes to capture various types of video signals, output nodes to drive display devices, and switches to interconnect them. Add inputs, displays, and standard CAT6 network cabling. That's about it.

Input and output signals can be either digital or analog, to meet the interface requirements of the attached devices. But remember, inside the PixelNet domain signals are always digital and can be transmitted long distances without degradation. All video processing is done in the digital domain including cropping, scaling, de-interlacing and noise reduction.

A Seriously Flexible and Expandable System

PixelNet is all about scalability. The same component parts can scale from a single input distributed to a single output to literally hundreds of inputs and outputs. Outputs can be defined as a single display or logically grouped together to create one or more display walls.

Need to add another input? Add another PixelNet input node. Expanding the display wall? Add a PixelNet output node for each new display.

PixelNet

Jupiter

PixelNet
Pixel 3G-SDI Input Node

Specifications

A **SDI Input, BNC (female)**

B **SDI Output, BNC (female)**

C **PixelNet Port 1 (1 Gbps, RJ45)**

D **PixelNet Port 2 (1 Gbps, RJ45)**

E **12V DC Power Connector (screw-on, female)**

PixelNet 3G-SDI Input Node

Serial Digital Video Input Node for PixelNet

Supports 3G-SDI, HD-SDI, SD-SDI

Handles SMPTE 259M, SMPTE 292M, and SMPTE 424M signals

10-bit color processing

Reclocked loop-through output

Automatic format detection for Plug-and-Play simplicity

Dual Gigabit PixelNet ports

Input Signal Specifications	
Range:	From 480i to 1080p @ 50 or 60 fps
Signal Type:	3G-SDI, HD-SDI, and SD-SDI Handles SMPTE 259M, SMPTE 292M, and SMPTE 424M signals
Input Signal Processing	Proprietary Jupiter PixelNet™: scaling, crop and zoom
Output Connectors	Dual PixelNet Ports, 1Gbps Ethernet, RJ45 Copper Connector Reclocked SDI output on BNC connector (female)
Ordering Information	
Model 2-540-198-00	PixelNet 3G-SDI Input Node
Dimensions	
L x W x H (without feet)	9.25" (235mm) x 6.435" (164.5mm) x 1.415" (35.94mm)
L x W x H (with feet)	9.25" (235mm) x 6.435" (164.5mm) x 1.670" (42.42mm)
Weight	2.5 lbs.
Shipping weight	3.5 lbs.
Operating Range	
Temperature	32°F – 104°F (0°C – 40°C)
Humidity	Up to 90% non-condensing
Altitude	Up to 10,000 feet (3,048.0m)
Electrical Requirements	
Input voltage	100-240 VAC, auto-ranging power supply
Line frequency	50–60Hz
Power consumption	350 watts, maximum
Features	Automatic operation, self identifying, self-configuring, hot swappable

The PixelNet System

1 Display Wall
Each display in the wall is connected to a PixelNet TeamMate output node.

2 PixelNet TeamMate Output Nodes
A PixelNet Audio output node can also be connected if audio playback is desired.

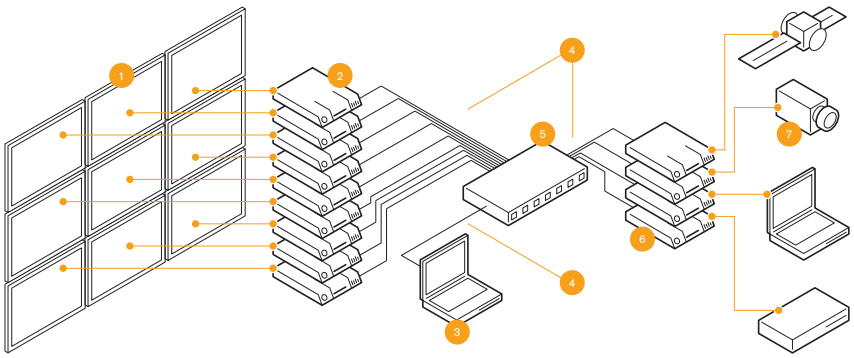
3 PixelNet Domain Control (PDC)
Powerful drag-and-drop system management software running on a PC connected to the PixelNet Switch.

4 CAT6 Cables
Inexpensive Ethernet cables, up to 100m in length.

5 PixelNet Switch
All PixelNet input and output nodes are connected to the switch, as well as a PC running PDC.

6 PixelNet Input Nodes
Sources are matched to appropriate input nodes.

7 Sources
Cameras, PCs, media players, sensors, etc.



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