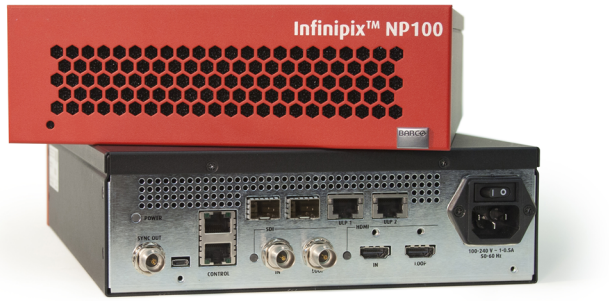
Infinipix™ NP100

Infinipix™ processor for LED displays



- **Manages one or more connected display(s)**
- **Fine-tunes brightness without any loss of image quality**
- **Allows for brand-specific color calibration**
- **Smooth and seamless results for still and moving content**

The Infinipix™ NP100 is the next generation in LED display processors. The NP100 processes signals coming from connected video sources and transmits them to the InfinipixTM transceiver cards integrated into the LED tiles. The processor is steered by the Infinipix™ NM100 manager and controls one or more connected display(s).

Delivering flawless viewing experiences

Whatever your needs are, the InfinipixTM platform helps you get the most out of your LED content.

Whether your application requires a dimmed LED wall or a display run at high-brightness, you can keep the same color accuracy, grey scale levels and details thanks to the InfinipixTM processing. Don't let your creativity be limited by your canvas, and always show your content as intended.

With lowest latency for showcasing motion content, black frame insertion to optically reduce motion blur and premium anti-aliasing filters to realize perfectly scaled and sharp images, Barco's InfinipixTM is optimized to bring state-of-the art results and exceptional viewing experiences for still, slow-moving and fast-moving content.

Unmatched reliability

In the unlikely event that the data path is interrupted, all subsequent tiles in the chain would be void of content. Barco's LED processing provides a redundant data path that travels in the direction opposite to the data flow. When this back-up data flow takes over, an uninterrupted image is guaranteed while you fix the failure.

PRODUCT SPECIFICATIONS	INFINIPIX™ NP100
3D sync	■ Currently not supported
Remote control	2x Ethernet: RJ-45 connectors, running 1GbE used as control protocol link to a separate Infinipix™ Manager (NM100) for centralized management of multi-device Infinipix™ Processors (NP100) and one or more Displays.
Outputs	2x Ethernet (ULP) Modular Display Outputs: ■ RJ-45 connectors, running 1GbE ■ Uses 1000Base-T Cat 5E or Cat 6 cable with a maximum length of 100m (328 ft.). 2x Ethernet (SFP) Modular Display Outputs: ■ SFP+ cages supporting 1GbE or 10GbE SFP+ modules ■ Uses 1000Base-T: using Cat 5E or Cat 6 cable with matching SFP+ module with a maximum length of 100m (328 ft.). ■ Uses 1000Base-SX: using multi mode fiber of type OM2 of maximum 220m (721 ft.) or OM3 (Recommended) of maximum 500m (1640 ft.) with matching SFP+ module. ■ Uses 10GBase-SR: using multi mode fiber of type OM3 with a maximum distance of 300m (984 ft.) Using 1GbE and 10GbE outputs at the same time on one device is not supported
Dimensions WxDxH	216 x 286 x 70 mm (8.5 x 11.25 x 2.75 in)
Video inputs	1x HDMI (type A) Input: ■ Formats RGB 4:4:4 and YCbCr 4:2:2 and 4:4:4; resolutions up to 2,560x1,600 @60Hz to a maximum pixel rate of 268MHz (Please consult your modular display hardware specification for its maximum supported input frequency which may be less than what is supported by the NP100 Infinipix Processor). ■ Supports input bit depth of up to 12 bits per color channel ■ Performs image processing at minimum of 12bits per color channel ■ Other video formats supported: Single-link DVI digital sources using a DVI to HDMI passive cable converter* / DisplayPort sources using a DisplayPort to HDMI active cable converter* / VGA sources using VGA to HDMI active cable converter* / Composite, Component, S-Video sources using active cable converter* to HDMI. *: none of the cable converters are shipped with the product. ■ EDID version 1.3 compatible ■ Not supported: CEC ■ Both progressive and interlaced sources are supported 1x 3G SDI Input: ■ 75 ohm BNC connector, supporting formats SD-SDI per SMPTE 259M-C (NTSC/PAL resolution); HD-SDI per SMPTE 292M, 296M; and 3G-SDI per SMPTE 425M ■ Dual link HD-SDI (pair SMPTE 292 links) by SMPTE 372M NOT supported
Video loop outputs	■ 1x HDMI Loop Output: type A connector; HDMI input signals reproduced on HDMI Loop Output limited to a maximum pixel rate of 225MHz ■ 1x 3G SDI Loop Output: 75 ohm BNC connector; SDI input signals reproduced through SDI Loop output ■ HDCP is not supported on loop out ■ Video loop outputs are intended primarily for troubleshooting purposes
Weight	2.72 kg (6 lbs)
Enclosure	metal
Separate enclosure	rack shelf for side-by-side Infinipix™ Manager (NM100) and Infinipix™ Processor (NP100) ■ Width: 19" rack ■ Height: 2RU ■ Type: Metal
Environmental temperature	Operational: 0-40° Celsius (32-104° F)
Environmental humidity	Operational: 10-85%, non-condensing
Power Type	100-240 VAC, 1.5A -50/60Hz
Power consumption	60 Watt
Standards	FCC: Part 15, Subpart B Section 15.107 & 15.109, Class A; CE: CISPR 24/ EN 55024, CISPR 22/ EN 55022 Level A, EN 61000-3-2 with A1, A2 2006 (only if 75W or above), IEC/EN/UL 60950-1, c-UL CSA C22.2 60950-1; ICES-003 Class A v4
Certifications	CE, ETL, RoHS, China RoHS, WEEE
Warranty	Full three-year parts and labor warranty

Last updated: 16 Apr 2020

Technical specifications are subject to change without prior notice. Please check www.barco.com for the latest information.