P3 PowerPort 1000 IP Install

The P3 PowerPort 1000 IP Install is an integrated power supply and data processor for Martin's range of creative LED video products, including the Exterior PixLine™ and VC-Dots™. When driven by one of Martin's award-winning P3™ System Controllers™, it combines stable power delivery with high-speed, high-capacity video processing. Setup and configuration are easy and intuitive. A full outdoor rating and optional fiber interface make the product perfect for permanent outdoor installations.

Power and data processor for all Martin's fixed-installation creative LED video products

Flexible integration: can be located remotely, indoors or outdoors

Easy cabling and configuration

FEATURES

- P3 image processing technology
- Set-up and addressing via P3 System Controller family
- No local configuration needed
- P3 input and thru to allow daisy-chaining
- Optional fiber-interface
- 4 hybrid power/data output ports
- Wall-mountable or free-standing
- Can be located up to 50 m away from the creative LED video products
- IP66

TECHNICAL SPECIFICATIONS

Physical
Length: 426 mm (16.8 in.)
Width: 483 mm (19.1 in.)
Height: 146 mm (5.8 in.)
Weight: 8 kg (17.7 lbs.)

Control and Programming
Addressing and status: Via P3 System Controller
Mapping: Via P3 System Controller
Firmware update: Via P3 System Controller

Control/User Interface
Device status: Multicolor status LED
Power output status: Four LEDs
Data output status: Four LEDs
Device test and reset: Pushbutton to call up local test patterns and reset device
Status LEDs and pushbutton can be disabled remotely if required:

P3 Signal Protocol
Signal type: Gigabit Ethernet
Protocol: Proprietary Martin P3
Hot pluggable: Yes, electrically isolated at all connections
Cable type: Ethernet, CAT 5e or better
Cable length: Up to 100 m (328 ft.) between any 2 devices, extendable with Ethernet switch or conversion to fiber

System integration
VC-Dot™ family via VC-Feeder™

Exterior PixLine™ family
VDO Sceptron™ family
VC-Grid™ family (indoor product)
VC-Strip™ family (indoor product)
Exterior Dot-HP™ family

Construction
Protection rating: IP66
NEMA enclosure rating: Type 3
Housing: Aluminum
Color: Alu grey (customized colors available on project basis)
Effective Projected Area (EPA): 0.21 m2
RoHS compliant

Installation
Mounting: Brackets for installation on flat surface
Orientation: Any, except with cable glands facing up or lid facing down

Connections
Power input: Cable gland (M20), internal screw terminals
P3 data in/out: Two cable glands (M16), two internal RJ45 connectors (if copper-to-fiber unit is installed, one cable gland can be used for fiber)
Combined power & data out: Four cable glands (M16), internal screw terminals
M16 cable glands accept 5.5 - 10 mm cable, M20 glands accept 8-13 mm cable

Electrical
AC power: 120-277 V nominal, 50/60 Hz
Power supply units: Auto-ranging electronic switch-mode
Typical total power consumption: 1000 W (including full load of connected display devices, all at full intensity)
Typical half-cycle RMS inrush current at 230 V, 50 Hz: 20.9 A
Total power consumption in idle state (at 25° C, all connected devices powered off): 22 W

Thermal
Cooling: Convection
Maximum ambient temperature (Ta max.): 55° C
Minimum ambient temperature (Ta min.): -30° C
Total heat dissipation (calculated, +/- 10%): 345 BTU/hr. (not including display devices but with system at full load)

Approvals
EU safety: EN 60950
EU EMC: EN 55032, EN 55103-2, EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
US safety: ANSI/UL 60950-1
Canadian safety: CSA C22.2 No. 60950-1

Included Items
Cable glands

Related Items
P3-050 System Controller: P/N 90721090
P3-100 System Controller: P/N 90721010
P3-150 System Controller: P/N 90721015
P3-200 System Controller: P/N 90721020
P3-300 System Controller: P/N 90721060
P3-PC System Controller: P/N 90721030
P3-PC License Code: P/N 39808028

Ordering Information
Martin P3 PowerPort™ 1000 IP, Installation Model: P/N 90721080