

High PoE Midspans

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Invented for life



- ▶ Supports high-power PoE/PoH and complies to both the IEEE 802.3af and the IEEE 802.3at standards
- ▶ 60 W and 95 W models
- ▶ Mounts to a wall, shelf, bench, desktop, and to other units

Bosch sells two (2) models of midspans (a 60 W model and a 95 W model) that enable remote power over an IP network connection for specific Bosch IP cameras. Rated for indoor installation only, the midspans can be installed indoors and wired to a camera installed outdoors.

Each midspan has a single port and is designed to carry data and power over a standard CAT5e (or better) cable, delivered through all 4 pairs.

95 W Midspan

The 95 W midspan (NPD-9501A) is a high-power PoH (Power Over HDBase T) device that provides data and power between an Ethernet (remote network) switch and a MIC7000, MIC IP starlight 7000i, or MIC IP fusion 9000i camera. It supports the proposed standard for a 95 W output device, and is backwards compatible to both the IEEE 802.3af and the IEEE 802.3at standards (15.4 W and 25.5 W).

60 W Midspan

The 60 W midspan (NPD-6001A) enables remote High Power over Ethernet (High PoE) for various Bosch IP/HD PTZ cameras. Generating a maximum of 60 W, it complies to both the IEEE 802.3af and the IEEE 802.3at standards, while doubling the available power.

Certifications and approvals

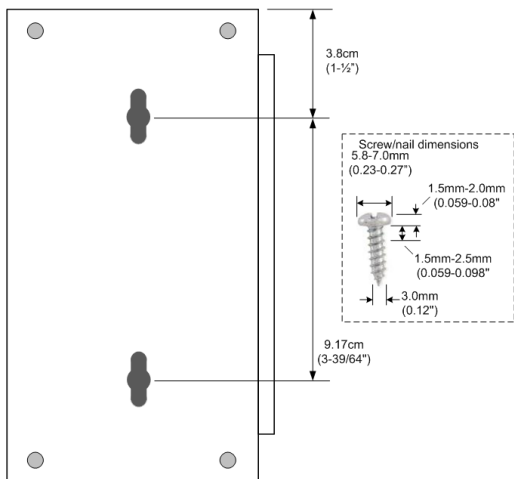
Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations, including EN 55022 Class B (emission), EN 55024 (Immunity), and VCCI
Product Safety	Complies with UL/cUL, GS Mark per EN 60950-1
Regulatory Compliance	IEEE 802.3af (PoE), IEEE 802.3at (PoE+, including 2-event), RoHS Compliant, WEEE Compliant, CE
Lightning protection	Meets GR-1089-CORE lightning protection demands

Installation/configuration notes

In the table below, an "X" identifies which midspans can supply power to which models of cameras.

CAMERA MODELS	60 W midspan (NPD-6001A)	95 W midspan (NPD-9501A)
AUTODOME 7000 - outdoor models (with heater)	X	
MIC7000 and MIC IP starlight 7000i models without illuminator	X	X
MIC7000 and MIC IP starlight 7000i models with illuminator		X
MIC IP fusion 9000i models		X

Surface mounting



Technical specifications

User Connections

Connectors	Shielded RJ-45 100 Base-TX Ethernet PoE++ EIA 568A and 568B
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Data

Data transmission	Data provided over pairs 1/2 and 3/6 for 10/100 Ethernet
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Electrical

Input Voltage	100 to 240 VAC, 50/60 Hz
Output Voltage	54-57 VDC (nominal)
Input Current	NPD-6001A (60 W): 1.2 A NPD-9501A (95 W): 1.35 A (maximum)

High Power Over Ethernet (High PoE) Output	Pin Assignment and Polarity: 4 Pair power - Pairs 1/2 (-) and 3/6 (+) - Pairs 7/8 (-) and 4/5 (+) User Port Power: 60 W maximum for NPD-6001A 95 W maximum for NPD-9501A
Surge protection	No

Environmental

Operating Temperature	At 95 W: -10 °C to +40 °C (+14 °F to +104 °F) At 60 W: -10 °C to +45 °C (+14 °F to +113 °F) At 30 W: -10 °C to +55 °C (+14 °F to +131 °F)
Storage Temperature	-20 °C to +70 °C (-4 °F to +158 °F) (NPD-6001A and NPD-9501A)
Operating Humidity	NPD-6001A (60 W): Maximum 90% relative, non-condensing NPD-9501A (95 W): 10% - 95%, non-condensing
Storage Humidity	NPD-6001A (60 W): Maximum 95% relative, non-condensing NPD-9501A (95 W): 5% - 95%, non-condensing

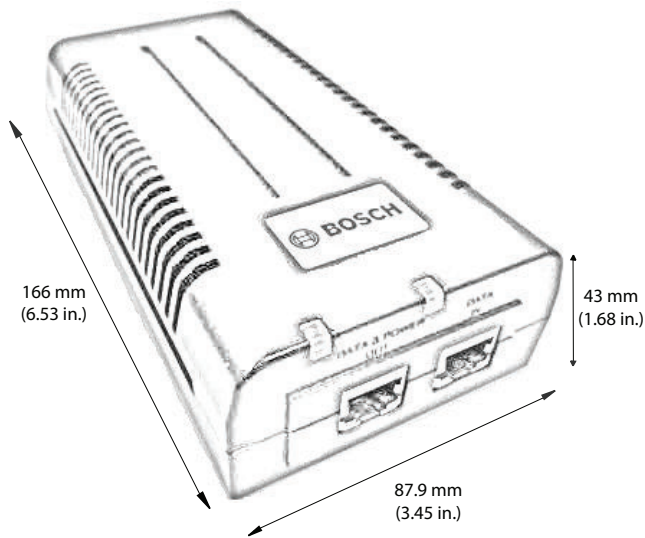
Construction

Dimensions (W x H x L)	87.9 mm x 43 mm x 166 mm (3.46 in. x 1.68 in. x 6.53 in.)
Weight	400 g (0.88 lb)
Mounting	To wall, shelf, bench, desktop, and to each other

Miscellaneous

Number of Ports	One (1)
Pass through data rates	10/100/1000 Mbps
Maximum cable length recommended	Not to exceed 100 m (333 ft) between network source and terminal
System Indicators	AC Power (green) Channel Power (green and orange)

Dimensional Drawings



Ordering information

NPD-6001A Midspan, high PoE, single port, AC in
High Power, 60 W Single Port PoE Midspan with AC in
Order number **NPD-6001A**

NPD-9501A Midspan, high PoE, single port, AC in
High PoE, 95 W, Single port indoor Midspan.
120/230VAC input. Supplies a data and power
interface to camera using a single standard CAT5e (or
better) network cable.
Order number **NPD-9501A**

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