

# 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 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

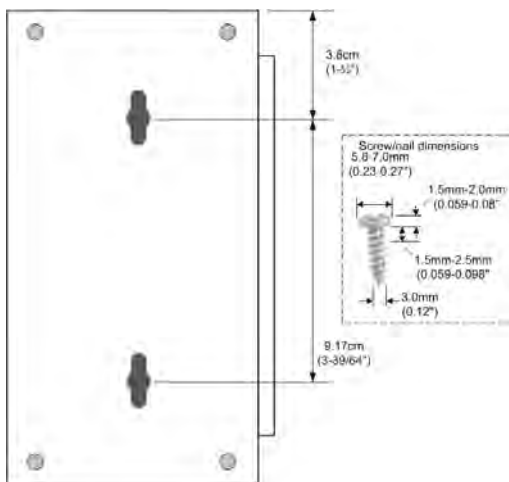
Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations, including EN 55022 Class B (emission), EN 55024 (Immunity), and VCCI
Product Safety	Complies with UL/cUL, GS Mark per EN 60950-1
Regulatory Compliance	IEEE 802.3af (PoE), IEEE 802.3at (PoE+, including 2-event), 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 MIC7000 and AUTODOME 7000.

CAMERA MODELS	60 W midspan (NPD-6001A)	95 W midspan (NPD-9501A)
AUTODOME 7000 – outdoor models (with heater)	X	
MIC7000 - Standard models without illuminator	X	X
MIC7000 - Standard models with illuminator		X
MIC7000 - Models for extreme low temperature		X

## Surface mounting



## Parts included

Quantity	Part
1	Midspan, 60 W or 95 W
1	120 V power cord
1	230 V power cord
1	Installation Manual

## 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

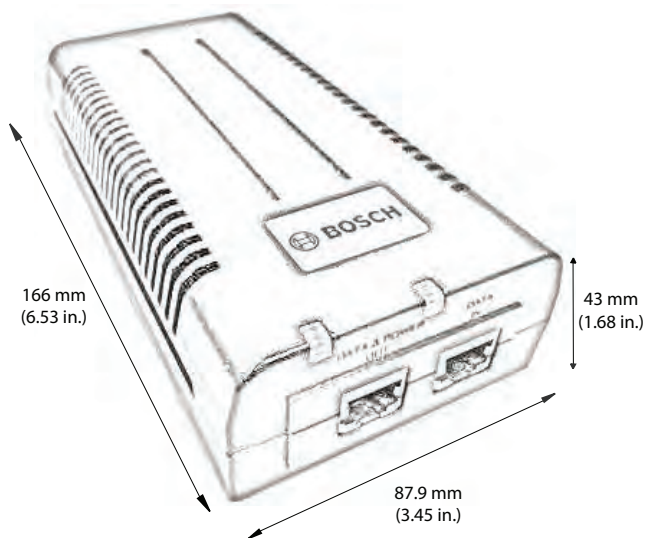
Dimensions (W x H x L)	87.9 mm x 43 mm x 166 mm (3.46 in. x 1.68 in. x 6.53 in.)
Weight	400 g (0.88 lb)
Mounting	To wall, shelf, bench, desktop, and to each other

## 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

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

**High PoE Midspan, 95 W, single port, AC in**  
High PoE, 95 W, Single Port Midspan with AC in  
Order number **NPD-9501A**

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