

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
- Lightning protection
- Detects and protects non-standard Ethernet terminals automatically
- Mounts to a wall, shelf, bench or desktop
- 95 W model also mounts to other 95 W model 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 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.

60 W Midspan

The 60 W midspan (NPD-6001B) 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

60 W models only:

EN 61000-4-5 (10/700 µsec, 4kv) Surge protection: IEC 61643-21 ITU-T K.45 International standard
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Installation/configuration notes

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

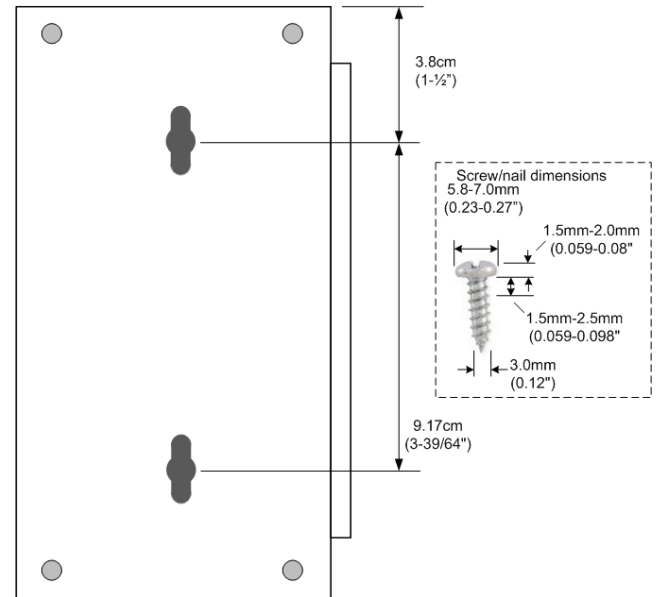
CAMERA MODELS	60 W midspan (NPD-6001B)	95 W midspan (NPD-9501A)
AUTODOME 7000 - outdoor models (with heater)	X	
MIC7000 and MIC IP starlight 7000i models without illuminator	X	X
MIC7000 and MIC IP starlight 7000i models with illuminator		X
MIC IP fusion 9000i models		X
AUTODOME IP starlight 5000i and AUTODOME IP starlight 5000i IR models	X	

Surface mounting

60 W models:

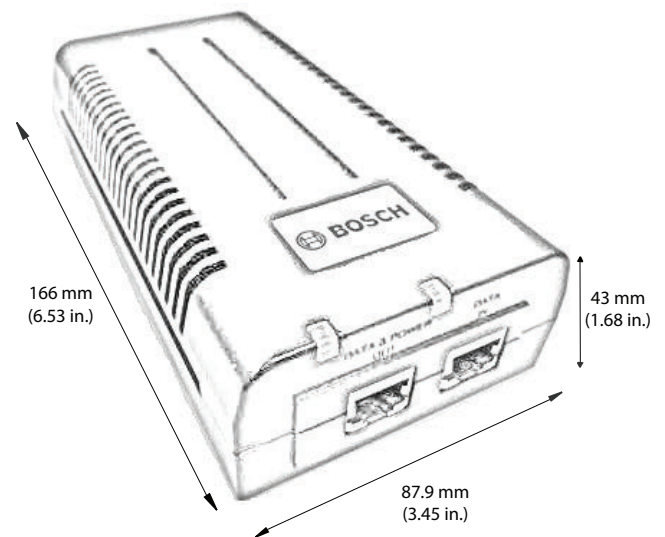


95 W models:

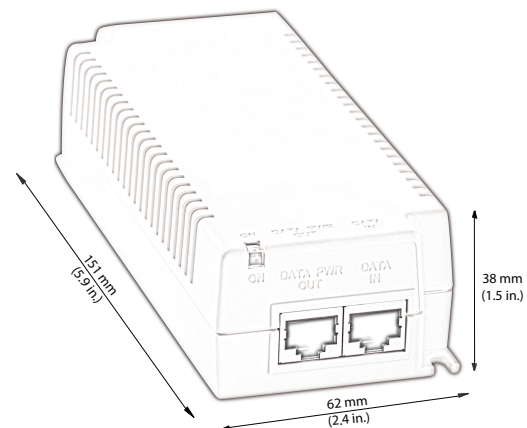


Dimensional Drawings

95 W models:



60 W models:



Technical specifications

Miscellaneous

60 W models:

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)

95 W models:

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 (yellow) Channel Power (green)

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	60 W model: 1.5 A 95 W model: 1.8 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-6001B 95 W maximum for NPD-9501A
Surge protection	60 W: Yes 95 W: No

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Environmental

Operating Temperature	At 95 W: -10 °C to +40 °C (+14 °F to +104 °F) At 60 W: -10 °C to +40 °C (+14 °F to +104 °F) At 30 W: -10 °C to +50 °C (+14 °F to +122 °F)
Storage Temperature	-20 °C to +70 °C (-4 °F to +158 °F) (60 W and 95 W models)
Operating Humidity	60 W model: Maximum 90% relative, non-condensing 95 W model: 10% - 95%, non-condensing
Storage Humidity	60 W model: Maximum 95% relative, non-condensing 95 W model: 5% - 95%, non-condensing

Construction

60 W models:

Dimensions (W x H x L)	62 mm x 38 mm x 151 mm (2.44 in. x 1.5 in. x 5.94 in.)
Weight	340 g (0.75 lbs)
Mounting	To wall, shelf, bench or desktop

95 W models:

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 other 95 W model units

Ordering information

NPD-6001B High PoE midspan

High PoE Midspan, 60 W, single port, AC in
Order number **NPD-6001B**

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**