

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

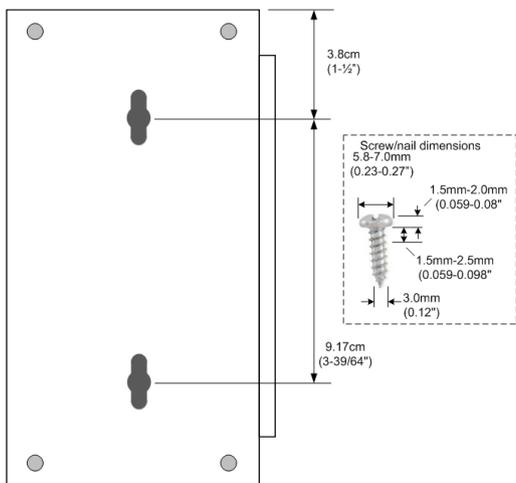
Electromagnetic Compatibility (EMC)	Complies with FCC Part 15, ICES-003, and CE regulations, including EN 55022 Class B (emission), EN 55024 (Immunity), and VCCI
Product Safety	Complies with UL/cUL, GS Mark per EN 60950-1
Regulatory Compliance	IEEE 802.3af (PoE), IEEE 802.3at (PoE+, including 2-event),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

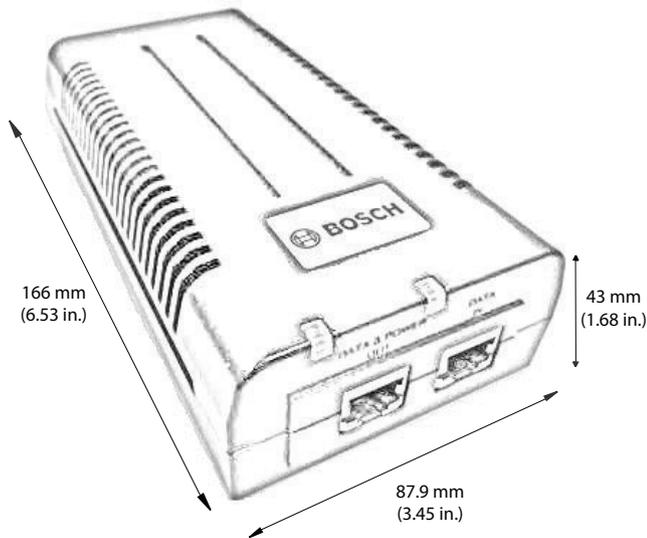
Dimensions (W x H x L)	87.9 mm x 43 mm x 166 mm (3.46 in. x 1.68 in. x 6.53 in.)
Weight	400 g (0.88 lb)
Mounting	To wall, shelf, bench, desktop, and to each other

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**

Represented by:

North America:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5617 BA Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia

China:
Bosch (Shanghai) Security Systems Ltd.
203 Building, No. 333 Fuquan Road
North IBP
Changning District, Shanghai
200335 China
Phone +86 21 22181111
Fax: +86 21 22182398
www.boschsecurity.com.cn

Latin America and Caribbean:
Robert Bosch Ltda Security Systems Division
Via Anhanguera, Km 98
CEP 13065-900
Campinas, Sao Paulo, Brazil
Phone: +55 19 2103 2860
Fax: +55 19 2103 2862
latam.boschsecurity@bosch.com
www.boschsecurity.com