



## Outdoor In-Line PoE Surge Protector - IP66 Rated, 1 Gbps, Cat5e/6/6a, IEC Compliant, TAA

MODEL NUMBER: B110-SP-CAT-OD











Protects edge network devices, including PoE cameras and LAN access points, from power surges, ESD and cable discharge events.

#### **Features**

**Outdoor In-Line Surge Protector Keeps Your 1G PoE Edge Network Equipment Safe**Ideal for home/corporate security systems, wireless access points, routers, bridges and other PoE (Power over Ethernet) applications, the B110-SP-CAT-OD protects outdoor-mounted network equipment from damage caused by power surges, electrostatic discharge (ESD) and cable discharge events. Just connect it between your source and network equipment using standard 23/24 AWG Cat5e/6/6a cables (sold separately) and the included cable glands. Both mid-span and end-span PoE are supported. **Note**: two B110-SP-CAT-OD surge protectors are required to protect both source and device.

Your Last Defense Against Intruding Voltage Spikes That Can Cause Costly Downtime Thyristor diode technology features low impedance and superior power handling capabilities, providing protection against ESD and super-fast response time under one nanosecond. Gas discharge modules on all four twisted pairs protect each wire from surges or spikes by dissipating the voltage transient through a contained plasma gas. Line-to-line and line-to-ground protection modes help protect against short circuits and minimize distortion of high-speed signals. The B110-SP-CAT-OD meets the following IEC regulations: IEC 61000-4-2 (ESD) +/- 15kV (Air), +/- 8kV (Contact) and IEC 61000-4-5 10kA (8/20µs), 20kV (8/20µs).

**IP66 Rating Denotes Resistance to Dust and Water**The housing's IP66 rating means the surge protector is not only 100% protected against dust, but also able to endure high-pressure jets of water from any direction with no damage or decline in performance. In addition to its water and dust resistance, which keeps it safe in storms and other foul weather, the B110-SP-CAT-OD is shockproof, giving you peace of mind without worrying about the unit being jarred and damaged.

Ready to Use Right from the Package, So You Can Plug and Play Immediately This PoE in-line surge protector meets 802.3af, 802.3at and 802.3bt IEEE standards, supporting up to 90W of DC power (due to power dissipation, powered devices receive 71W) and Ethernet data speeds up to 1 Gbps. No external power supply is required. Rear mounting holes allow for convenient installation where needed, such as high on a wall or pole. The distance between the B110-SP-CAT-OD and the equipment it is protecting should not exceed 328 feet (100 meters).

**TAA-Compliant for GSA Schedule Purchases**The B110-SP-CAT-OD is compliant with the Federal Trade Agreements Act (TAA), which makes it eligible for GSA (General Services Administration) Schedule and other federal procurement contracts.

### **Highlights**

- Easy to connect between midor end-span PoE source and device using Cat5e/6/6a cabling
- Dustproof, shockproof and IP66rated to endure powerful jets of water from any direction
- Supports 802.3af/at/bt IEEE standards and Ethernet data speeds up to 1 Gbps
- Plug-and-play operation with no external power required for immediate installation
- Compliant with the Federal Trade Agreements Act (TAA) for GSA Schedule purchases

### **Applications**

Protect an outdoor PoE device, such as a security camera, against damage from electrostatic discharge, cable discharge or power surge

### **Package Includes**

- B110-SP-CAT-OD Outdoor PoE Surge Protector
- Grounding wire, 18 AWG, 1-ft. (0.31 m)
- (2) Metric cable glands, 8.4 mm
- (2) PCBA mounting screws
- (4) Surface mounting screws
- (4) Surface screw anchors
- (4) Unit cover screws
- Owner's manual





# **Specifications**

OVERVIEW		
UPC Code	037332252104	
Product Type	Surge Protector	
Accessory Type	Surge Protector	
Technology	Cat5/5e; Cat6; Cat6a; Cat8	
VIDEO		
HDR Support	No	
INPUT		
Nominal Input Voltage(s) Supported	120V AC	
Input Plug Type	RJ45	
Input Cord Length (ft.)	0	
Right-Angle Plug	No	
Input Cord Length (m)	0.00	
OUTPUT		
Output Receptacles	(2) Network	
Right-Angle Outlets	No	
POWER		
Power Over Cable (PoC) Support	Yes	
USER INTERFACE, ALERTS & CONTROLS		
Diagnostic LED(s)	No	
SURGE / NOISE SUPPRESSION		
AC Suppression Joule Rating	0	
Automatic Shut-Off	No	
DATALINE SURGE SUPPRESSION		
Cable (Coax) Protection	No	
Network (Ethernet) Protection	No	
Telephone/DSL Protection	No	
PHYSICAL		
Color	Light Gray	





Material of Construction         ABS           Housing Color         Light Gray           Shipping Dimensions (hwd / ni)         1.219 x 7.59 x 8.70           Shipping Dimensions (hwd / ni)         0.65           Shipping Weight (kg)         0.29           Unit Dimensions (hwd / ni.)         0.540 x 3.150 x 2.760           Unit Weight (kg)         0.55           Unit Weight (kg)         0.55           Unit Weight (kg)         0.25           ENVIRONMENTAL           Operating Temperature Range         40° to 158°F (40° to 70°C)           Storage Temperature Range         40° to 158°F (40° to 70°C)           Storage Temperature Range         40° to 194°F (40° to 90°C)           Relative Humidity         0% to 95% RH, Nor-Condensing           ESD Protection         16kV (kir) / 8kV (Contact)           Lightning Protection         10kA (8/20µn) / 20kV (8/20µn)           COMMUNICATIONS           Signal Range (ft)         109           Signal Range (ft)         109           Signal Range (ft)         102           Signal Range (ft)         102           Signal According (ft)         102           Signal According (ft)         102           CONNECTIONS <th c<="" th=""><th></th><th></th></th>	<th></th> <th></th>		
Shipping Dimensions (twd / in.)	Material of Construction	ABS	
Shipping Dimensions (twd / cm)	Housing Color	Light Gray	
Shipping Weight (lbs.)         0.65           Shipping Weight (kg)         0.29           Unit Densions (twd / in.)         6.540 x 3.150 x 2.760           Unit Packaging Type         Box           Unit Weight (lbs.)         0.55           Unit Weight (kg)         0.26           ENVIRONMENTAL           Operating Temperature Range         40° to 158°F (40° to 90°C)           Relative Humility         0% to 95% RH, Non-Condensing           ESD Protection         15kV (Air) / SkV (Gontact)           Light ming Protection         10kA (8/20µs) / 20kV (8/20µs)           COMMUNICATIONS           Signal Range (lt.)         100           Signal Range (m)         30           Native Accompatibility         1 Sbps (Gigabit)           LEEE Standards Supported         80.23r.802.3at.802.3at.802.3at.802.3at.           CONNECTIONS           Number of Ports         1           PoE Power Budget (Watts)         90           Side A - Connector 1         R.145 (FEMALE)           Side B - Connector 1         R.145 (FEMALE)           Side B - Connector 1         R.146 (FEMALE)           PoE Type         Type 4 High-Power (100W, IEEE 802.3bt)	Shipping Dimensions (hwd / in.)	4.80 x 2.99 x 3.82	
Shipping Weight (kg)         0.29           Unit Dimensions (hwd /in.)         6.540 x 3.150 x 2.760           Unit Weight (lbs.)         0.55           Unit Weight (kg)         0.25           ENVIRONMENTAL           Operating Temperature Range         40° to 168° F (-40° to 70°C)           Storage Temperature Range         40° to 194° F (-40° to 90°C)           Relative Humidity         0% to 95% RH, Non-Condensing           ESD Protection         15kV (Air) / 8kV (Contact)           Ughtning Protection         10kA (820µs) / 20kV (8/20µs)           COMMUNICATIONS           Signal Range (lft.)         100           Signal Range (m)         30           Network Compatibility         1 Gbps (Gigabit)           IEEE Standards Supported         802 3at; 802 3at; 802 3bt           CONNECTIONS           Number of Ports         1           Poe Power Budget (Watts)         90           Side B - Connector 1         R,45 (FEMALE)           Side B - Connector 1         R,45 (FEMALE)           Poe Type         Type 4 High-Power (100W, IEEE 802.3bt)           FATURES & SPECIFICATIONS           Rotatable Outlets         No           Antimicrobial         No <tr< td=""><td>Shipping Dimensions (hwd / cm)</td><td>12.19 x 7.59 x 9.70</td></tr<>	Shipping Dimensions (hwd / cm)	12.19 x 7.59 x 9.70	
Unit Dimensions (hwd / in.)         6.540 x 3.150 x 2.760           Unit Packaging Type         Box           Unit Weight (bs.)         0.55           Unit Weight (kg)         0.25           ENVIRONMENTAL           Operating Temperature Range         4.0° to 158°F (-40° to 90°C)           Storage Temperature Range         -40° to 194°F (-40° to 90°C)           Relative Humidity         0% to 95% RRI, Non-Condensing           ESD Protection         15kV (Air) / 8kV (Contact)           Lightning Protection         10kA (8/20µs) / 20kV (8/20µs)           COMMUNICATIONS           Signal Range (m)         30           Network Compatibility         1 Gbps (Gigabit)           IEEE Standards Supported         802-3af; 802-3at 802-3bt           CONNECTIONS           Number of Ports         1           Side B - Connector 1         R.445 (FEMALE)           Side B - Connector 1         R.445 (FEMALE)           Side B - Connector 1         R.45 (FEMALE)           FEATURES & SPECIFICATIONS           Rotatable Outlets         No           Antimicrobial         No           Antimicrobial         No           Most	Shipping Weight (lbs.)	0.65	
Unit Packaging Type         Box           Unit Weight (lbs.)         0.55           Unit Weight (kg)         0.25           ENVIRONMENTAL           Operating Temperature Range         -40° to 158°F (-40° to 70°C)           Storage Temperature Range         -40° to 194°F (-40° to 90°C)           Relative Humidity         0% to 95% RH, Non-Condensing           ESD Protection         15kV (Air) / 8kV (Contact)           Lightning Protection         10kA (8/20μs) / 20kV (8/20μs)           COMMUNICATIONS           Signal Range (ft.)         100           Signal Range (m)         30           Network Compatibility         1 Gbps (Gigabit)           IEEE Standards Supported         802.3af; 802.3af; 802.3bt           CONNECTIONS           Number of Ports         1           PoE Power Budget (Watts)         90           Side A - Connector 1         RJ45 (FEMALE)           Side B - Connector 1         RJ45 (FEMALE)           PoE Type         Type 4 High-Power (100W, IEEE 802.3bt)           FEATURES & SPECIFICATIONS           Rotatable Outlets         No           Antimicrobial	Shipping Weight (kg)	0.29	
Unit Weight (kg)         0.55           Unit Weight (kg)         0.25           ENVIRONMENTAL           Operating Temperature Range         -40° to 158°F (-40° to 90°C)           Storage Temperature Range         -40° to 194°F (-40° to 90°C)           Relative Humidity         0% to 95% RH, Non-Condensing           ESD Protection         15kV (Air) / 8kV (Contact)           Lightning Protection         10kA (8/20μs) / 20kV (8/20μs)           COMMUNICATIONS           Signal Range (ft.)         100           Signal Range (ft.)         100           Signal Range (m)         30           Network Compatibility         1 Gbps (Gigabit)           IEEE Standards Supported         802.3af; 802.3at; 802.3bt           CONNECTIONS           Number of Ports         1           PoE Power Budget (Watts)         90           Side B - Connector 1         RJ45 (FEMALE)           Side B - Connector 1         RJ45 (FEMALE)           Features a SPECIFICATIONS           Rotatable Outlets         No           Antimicrobial         No           Integrated/Removable Cable         No           MST Support         No	Unit Dimensions (hwd / in.)	6.540 x 3.150 x 2.760	
Unit Weight (kg)         0.25           ENVIRONMENTAL           Operating Temperature Range         -40° to 158°F (-40° to 70°C)           Slorage Temperature Range         -40° to 194°F (-40° to 90°C)           Relative Humidity         0% to 95% RH, Non-Condensing           ESD Protection         15kV (Air) / 8kV (Contact)           Lightning Protection         10kA (8/20µs) / 20kV (8/20µs)           COMMUNICATIONS           Signal Range (ft.)         100           Signal Range (m)         30           Network Compatibility         1 Gbps (Gigabit)           IEEE Standards Supported         80:23af; 802.3at; 802.3bt           CONNECTIONS           Number of Ports         1           PoE Power Budget (Watts)         90           Side A - Connector 1         R.145 (FEMALE)           Side B - Connector 1         R.145 (FEMALE)           Side B - Connector 1         R.145 (FEMALE)           PoE Type         Type 4 High-Power (100W, IEEE 802.3bt)           FEATURES & SPECIFICATIONS           Rotatable Outlets         No           Antimicrobial         No           Integrated/Removable Cable         No           MST Support         No	Unit Packaging Type	Вох	
ENVIRONMENTAL  Operating Temperature Range	Unit Weight (lbs.)	0.55	
Operating Temperature Range  -40° to 158°F (-40° to 70°C)  Storage Temperature Range  -40° to 194°F (-40° to 90°C)  Relative Humidity  0% to 95% RH, Non-Condensing  ESD Protection  15kV (Air) / 8kV (Contact)  Lightning Protection  10kA (8/20µs) / 20kV (8/20µs)   COMMUNICATIONS  Signal Range (ft.)  100  Signal Range (m)  30  Network Compatibility  1 Gbps (Gigabit)  IEEE Standards Supported  802.3af; 802.3at; 802.3bt  CONNECTIONS  Number of Ports  1 PoE Power Budget (Watts)  Side A - Connector 1 RJ45 (FEMALE)  Side B - Connector 1 RJ45 (FEMALE)  PoE Type  Type 4 High-Power (100W, IEEE 802.3bt)  FEATURES & SPECIFICATIONS  Rotatable Outlets  No Antimicrobial  No Integrated/Removable Cable  No MST Support  No	Unit Weight (kg)	0.25	
Storage Temperature Range	ENVIRONMENTAL		
Relative Humidity         0% to 95% RH, Non-Condensing           ESD Protection         15kV (Air) / 8kV (Contact)           Lightning Protection         10kA (8/20µs) / 20kV (8/20µs)           COMMUNICATIONS           Signal Range (ft.)         100           Signal Range (m)         30           Network Compatibility         1 Gbps (Gigabit)           IEEE Standards Supported         802.3af; 802.3at; 802.3bt           CONNECTIONS           Number of Ports         1           PoE Power Budget (Watts)         90           Side A - Connector 1         RJ45 (FEMALE)           Side B - Connector 1         RJ45 (FEMALE)           FEATURES & SPECIFICATIONS           Rotatable Outlets         No           Antimicrobial         No           Antimicrobial         No           MST Support         No	Operating Temperature Range	-40° to 158°F (-40° to 70°C)	
ESD Protection         15kV (Air) / 8kV (Contact)           Lightning Protection         10kA (8/20µs) / 20kV (8/20µs)           COMMUNICATIONS           Signal Range (ft.)         100           Signal Range (m)         30           Network Compatibility         1 Gbps (Gigabit)           IEEE Standards Supported         802.3af; 802.3at; 802.3bt           CONNECTIONS           Number of Ports         1           PoE Power Budget (Watts)         90           Side A - Connector 1         RJ45 (FEMALE)           Side B - Connector 1         RJ45 (FEMALE)           PoE Type         Type 4 High-Power (100W, IEEE 802.3bt)           FEATURES & SPECIFICATIONS           Rotatable Outlets         No           Antimicrobial         No           Antimicrobial         No           MST Support         No	Storage Temperature Range	-40° to 194°F (-40° to 90°C)	
Lightning Protection 10kA (8/20µs) / 20kV (8/20µs)  COMMUNICATIONS  Signal Range (ft.) 100  Signal Range (m) 30  Network Compatibility 1 Gbps (Gigabit)  IEEE Standards Supported 802.3af; 802.3at; 802.3bt  CONNECTIONS  Number of Ports 1  PoE Power Budget (Watts) 90  Side A - Connector 1 RJ45 (FEMALE)  Side B - Connector 1 RJ45 (FEMALE)  PoE Type Type 4 High-Power (100W, IEEE 802.3bt)  FEATURES & SPECIFICATIONS  Rotatable Outlets No  Antimicrobial No  MST Support No	Relative Humidity	0% to 95% RH, Non-Condensing	
COMMUNICATIONS  Signal Range (ft.) 100  Signal Range (m) 30  Network Compatibility 1 Gbps (Gigabit)  IEEE Standards Supported 802.3af; 802.3at; 802.3bt  CONNECTIONS  Number of Ports 1 POE Power Budget (Watts) 90 Side A - Connector 1 RJ45 (FEMALE) Side B - Connector 1 RJ45 (FEMALE) POE Type Type 4 High-Power (100W, IEEE 802.3bt)  FEATURES & SPECIFICATIONS  Rotatable Outlets No Antimicrobial No Integrated/Removable Cable No MST Support No	ESD Protection	15kV (Air) / 8kV (Contact)	
Signal Range (ft.)         100           Signal Range (m)         30           Network Compatibility         1 Gbps (Gigabit)           IEEE Standards Supported           B02.3af; 802.3at; 802.3bt           CONNECTIONS           Number of Ports           1         PoE Power Budget (Watts)           90         Side A - Connector 1           RJ45 (FEMALE)           Side B - Connector 1         RJ45 (FEMALE)           PoE Type         Type 4 High-Power (100W, IEEE 802.3bt)           FEATURES & SPECIFICATIONS           Rotatable Outlets         No           Antimicrobial         No           Integrated/Removable Cable         No           MST Support         No	Lightning Protection	10kA (8/20μs) / 20kV (8/20μs)	
Signal Range (m)  Network Compatibility  1 Gbps (Gigabit)  IEEE Standards Supported  802.3af; 802.3at; 802.3bt  CONNECTIONS  Number of Ports  1 PoE Power Budget (Watts)  90  Side A - Connector 1 RJ45 (FEMALE) Side B - Connector 1 RJ45 (FEMALE) PoE Type  Type 4 High-Power (100W, IEEE 802.3bt)  FEATURES & SPECIFICATIONS  Rotatable Outlets  No Antimicrobial No Integrated/Removable Cable No MST Support  No	COMMUNICATIONS		
Network Compatibility 1 Gbps (Gigabit) IEEE Standards Supported 802.3af; 802.3at; 802.3bt  CONNECTIONS  Number of Ports 1 PoE Power Budget (Watts) 90 Side A - Connector 1 RJ45 (FEMALE) Side B - Connector 1 RJ45 (FEMALE) PoE Type Type 4 High-Power (100W, IEEE 802.3bt)  FEATURES & SPECIFICATIONS  Rotatable Outlets No Antimicrobial No Integrated/Removable Cable No MST Support No	Signal Range (ft.)	100	
IEEE Standards Supported 802.3af; 802.3at; 802.3bt  CONNECTIONS  Number of Ports 1 PoE Power Budget (Watts) 90 Side A - Connector 1 RJ45 (FEMALE) Side B - Connector 1 RJ45 (FEMALE) PoE Type Type 4 High-Power (100W, IEEE 802.3bt)  FEATURES & SPECIFICATIONS  Rotatable Outlets No Antimicrobial No Integrated/Removable Cable No MST Support No	Signal Range (m)	30	
CONNECTIONS  Number of Ports 1 PoE Power Budget (Watts) 90 Side A - Connector 1 RJ45 (FEMALE) Side B - Connector 1 RJ45 (FEMALE) PoE Type Type 4 High-Power (100W, IEEE 802.3bt)  FEATURES & SPECIFICATIONS  Rotatable Outlets No Antimicrobial No Integrated/Removable Cable No MST Support No	Network Compatibility	1 Gbps (Gigabit)	
Number of Ports 1 PoE Power Budget (Watts) 90 Side A - Connector 1 RJ45 (FEMALE) Side B - Connector 1 RJ45 (FEMALE) PoE Type Type 4 High-Power (100W, IEEE 802.3bt)  FEATURES & SPECIFICATIONS Rotatable Outlets No Antimicrobial No Integrated/Removable Cable No MST Support No	IEEE Standards Supported	802.3af; 802.3at; 802.3bt	
PoE Power Budget (Watts)  Side A - Connector 1 RJ45 (FEMALE)  Side B - Connector 1 RJ45 (FEMALE)  PoE Type Type 4 High-Power (100W, IEEE 802.3bt)  FEATURES & SPECIFICATIONS  Rotatable Outlets No Antimicrobial No Integrated/Removable Cable No MST Support No	CONNECTIONS		
Side A - Connector 1 RJ45 (FEMALE)  Side B - Connector 1 RJ45 (FEMALE)  POE Type Type 4 High-Power (100W, IEEE 802.3bt)  FEATURES & SPECIFICATIONS  Rotatable Outlets No Antimicrobial No Integrated/Removable Cable No MST Support No	Number of Ports	1	
Side B - Connector 1 RJ45 (FEMALE)  POE Type Type Type 4 High-Power (100W, IEEE 802.3bt)  FEATURES & SPECIFICATIONS  Rotatable Outlets No Antimicrobial No Integrated/Removable Cable No  MST Support No	PoE Power Budget (Watts)	90	
PoE Type Type 4 High-Power (100W, IEEE 802.3bt)  FEATURES & SPECIFICATIONS  Rotatable Outlets No Antimicrobial No Integrated/Removable Cable No MST Support No	Side A - Connector 1	RJ45 (FEMALE)	
Rotatable Outlets No Antimicrobial No Integrated/Removable Cable No MST Support No	Side B - Connector 1	RJ45 (FEMALE)	
Rotatable Outlets No Antimicrobial No Integrated/Removable Cable No MST Support No	PoE Type	Type 4 High-Power (100W, IEEE 802.3bt)	
Antimicrobial No Integrated/Removable Cable No MST Support No	FEATURES & SPECIFICATIONS		
Integrated/Removable Cable No MST Support No	Rotatable Outlets	No	
MST Support No	Antimicrobial	No	
	Integrated/Removable Cable	No	
Mounting Accessory Included No	MST Support	No	
	Mounting Accessory Included	No	





Multi-Resolution Support	No	
Ingress Protection (IP) Rating	IP66	
Driver Required	No	
Recommended Category Cable	Cat5e, Cat6, Cat6a, Cat8 Cables	
DIN Mountable	No	
STANDARDS & COMPLIANCE		
Product Compliance	RoHS; CE (Europe); REACH; FCC (USA); Trade Agreements Act (TAA)	
WARRANTY & SUPPORT		
Product Warranty Period (Worldwide)	2-year limited warranty	

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