POWER YOUR HIGH-POWER CAMERA WITH AN ANTAIRA INJECTOR

PoE Capabilities

It is important to review the cameras' IEEE 802.3bt PoE wattage requirement for 60W or up to 90W.

Type	Standard	PSE Power Output	PD Power Input	Power Over
Type 1	IEEE 802.3af	15.4W	12.95W	2 pairs
Type 2	IEEE 802.3at	30W	25.5W	2 pairs
Type 3	IEEE 802.3bt	60W	Up to 60W	2 or 4 pairs class 0~4 4 pairs class 5~6
Type 4	**IEEE 802.3bt**	**90W**	**Up to 90W**	**4 pairs class 7~8**

Choosing Antaira Injectors

As more Transportation professionals upgrade their existing network and add cameras for remote monitoring at airports, traffic intersections and ports, it is common to add a PoE++ BT injector to power the camera at both the IEEE 802.3bt Type 3 (up to 60W) and Type 4 (up to 90W) standards.

Application Requirements:

- Provide up to 97W power output to utilize high performance features
- Industrial-grade networking devices with extended operating temperature (-40°C to 75°C)
- Rugged design and fan-less operation for field cabinet installation
- Flexible options for DIN-rail or wall-mount installation (DIN-rail and wall mounting brackets included)
- Five-year warranty; TAA & NDAA Compliant

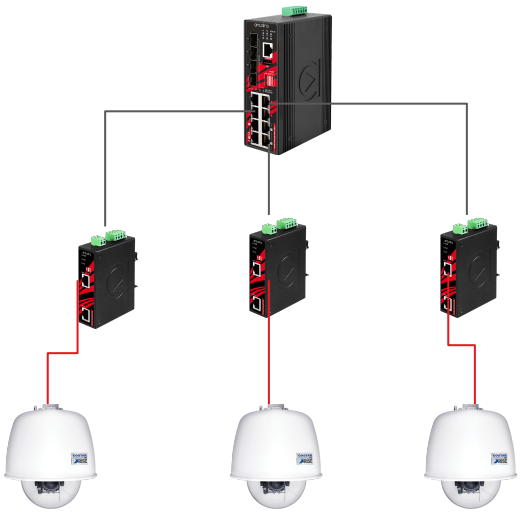


Figure 1. This topology shows a managed switch connecting to three IEEE 802.3bt 90W injectors that power three connected cameras using PoE++.

Low-Voltage Power Source 12VDC

Application: First Responder Vehicles

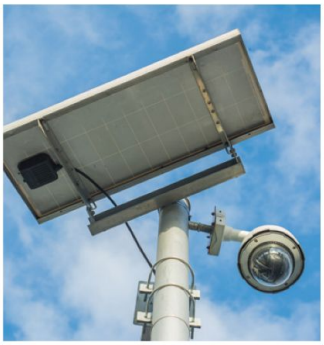
- High-power PoE applications that require 802.3bt (up to 90 Watts) send data and power (57VDC) over an Ethernet cable to supply data and power to devices, such as PTZ cameras or wireless transmitters.
- Automobile applications with only 12 volts of DC power available can use Antaira's low voltage PoE solutions to boost the 12VDC to the required 57VDC.

Low-Voltage Power Source 12VDC *External DC to AC Power Supply Sold Separately*	
	**INJ-C201G-BT-24-T** *1*10/100/1000Base-Tx (90W/Port) + 1*10/100/1000Base-Tx* 90W @ 12~55VDC Powers up high-power camera x1
	**INJ-C201G-BT-H-100-24-T** *1*10/100/1000Base-Tx (100W/Port) + 1*10/100/1000Base-Tx* 90W @ 12~55VDC Powers up high-power camera x1

Low-Voltage Power Source 24VDC

Application: Remote Solar

- Solar cells produce a wide range of voltage based on how much sun is hitting the solar panel. The power is collected by a regulator which typically controls the voltage and use it to charge a bank of batteries. In many cases, 24VDC batteries are used for this purpose.
- In high-power PoE 802.3bt (up to 100 Watts) applications, Antaira's low voltage PoE solutions boost power from 24VDC to the required 57VDC for a streamlined simple solution.



Low-Voltage Power Source 24VDC *External DC to AC Power Supply Sold Separately*	
	**INJ-C201G-BT-24-T** *1*10/100/1000Base-Tx (90W/Port) + 1*10/100/1000Base-Tx* 90W @ 12~55VDC Powers up high-power camera x1
	**INJ-C201G-BT-H-100-24-T** *1*10/100/1000Base-Tx (100W/Port) + 1*10/100/1000Base-Tx* 90W @ 12~55VDC / 100W @48~55VDC Powers up high-power camera x1

Injector for adding the camera to an existing switch with an open data port

Power Source 48~55VDC

Application: Traffic Cabinets

- Traffic cabinet provides AC power to a DC-to-AC power supply sold as an accessory with the injector.

Power Source 48~55VDC *External DC to AC Power Supply Sold Separately*	Low-Voltage Models - Support Full-Range 12~55VDC *External DC to AC Power Supply Sold Separately*
 **INJ-C201G-BT-T** *1*10/100/1000Base-Tx (90W/Port) + 1*10/100/1000Base-Tx* 90W @ 48~55VDC Powers up high-power camera x1	 **INJ-C201G-BT-24-T** *1*10/100/1000Base-Tx (90W/Port) + 1*10/100/1000Base-Tx* 90W @ 12~55VDC Powers up high-power camera x1
 **INJ-C201G-BT-100-T** *1*10/100/1000Base-Tx (100W/Port) + 1*10/100/1000Base-Tx* 100W @ 48~55VDC Powers up high-power camera x1	 **INJ-C201G-BT-H-100-24-T** *1*10/100/1000Base-Tx (100W/Port) + 1*10/100/1000Base-Tx* 90W @ 12~55VDC / 100W @48~55VDC Powers up high-power camera x1

Traffic cabinet provides AC power to a DC-to-AC power supply sold with the injector

PA-120-48-US
120W External Power Supply

SDR-120-48
For DIN-rail up to 120W

PWRCORD2-US
AC Power Cord