

Important Notice

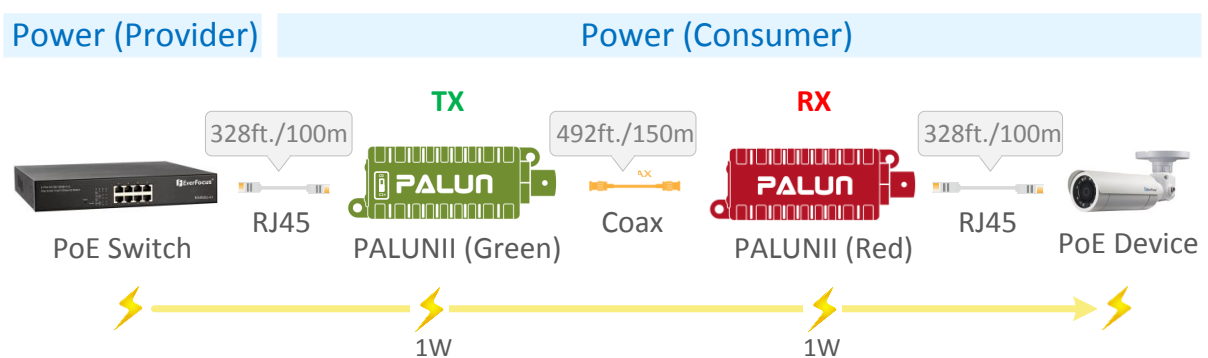
PALUNII is not backward compatible with first generation PALUN.

Introduction

PALUNII is a PoE-powered Video Balun which can transmit both power and digital IP video signal over coaxial cable. With PALUNII, you can easily upgrade the surveillance system from analog to IP, leveraging the existing coaxial infrastructure without re-cabling.

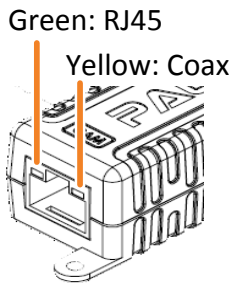
PALUNII supports connecting with PoE devices, allows flexible usage of networking products. Moreover, a smart switch design enables PALUNII to better accommodate PoE devices of different class levels. Please see all the detail information in this document.

PoE Device Connection Diagram



* Coax. cable with 75Ω impedance is strongly recommended

LED Indicators



The LED indicators on the PALUNII (TX/RX) indicate the connection status of the Network and Device Signal.

Green Light: Network Connection (RJ45)

- Steady Green: Connection Success
- Blinking: Network Transmission
- No Light: Connection Fail

Yellow Light: Device Signal (Coax)

- Steady Yellow: Connection Success
- Blinking: Device Signal Transmission
- No Light: Connection Fail

Optional Accessories

You can use the optional accessories to expand the capabilities and versatility of PALUNII. Please contact your dealer for more information.

PALUNII Rack Mount Bracket (Screws included)

The Rack Mount Bracket BA-PX12 is specially designed for PALUNII (Green). The maximum number for PALUNII installed on the bracket is 12.



BA-PX12



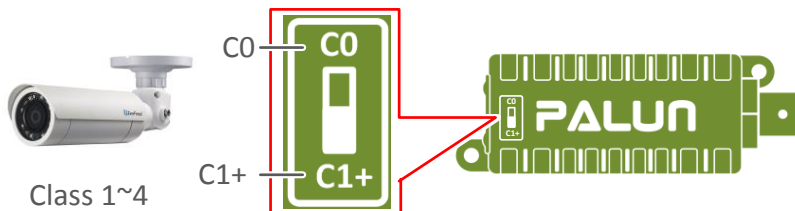
Suggested Installation

How to Use the Switch on PALUNII (TX)?

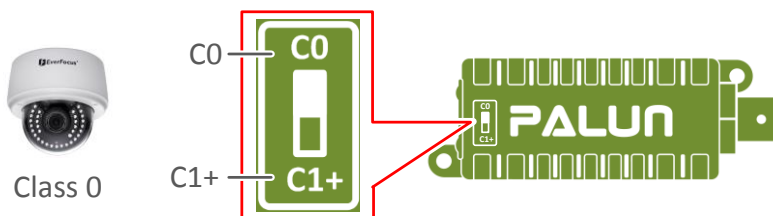
The switch on PALUNII TX (the green one only) is only functional when connecting to a PoE device at the RX end. The switch is designed for adjusting the power output from the PoE switch in order to better accommodate PoE devices of different class levels.

If the PoE device's PoE type is Class 1~4, please switch it to C1+

(If your PoE device's class level is 1, PALUNII will advertise it as Class 2 to the PoE switch; if the camera is Class 2, PALUNII will advertise it as Class 3 to the PoE switch, and so forth)

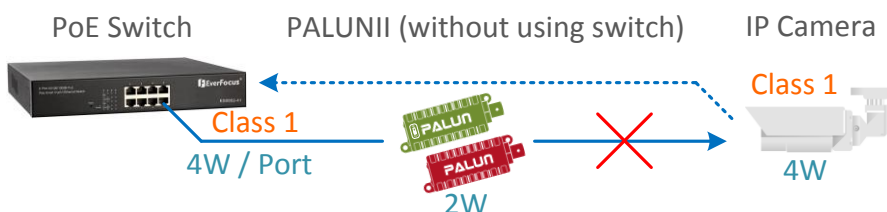


If the PoE device's PoE type is Class 0, please switch it to C0

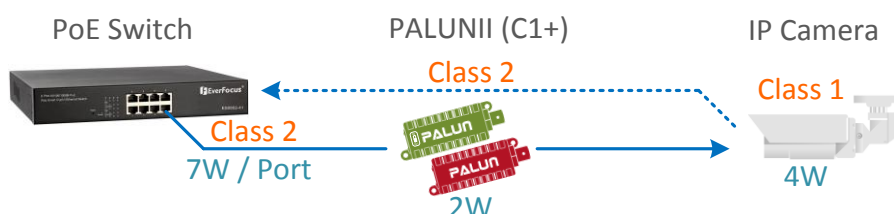


Why to Use the Switch on PALUNII (TX)?

Originally, if your PoE device is Class 1 and consumes 4W, the PoE switch detects the class level and sends Class 1 guaranteed maximum 4W of power which is sufficient to power up the PoE device. However, PALUNII also consumes 2 watts of power, so the total power consumption (6W) of both PALUNII and PoE device exceeds the power (4W) delivered by the PoE switch.



Now, if you switch PALUNII to **C1+** (for Class 1~4 PoE device only), it will help to increase the guaranteed power output from the PoE switch by advertising a higher class level. Therefore, in our example above, even though the IP camera is Class 1, PALUNII will advertise it as Class 2 to the PoE switch so that the PoE switch will reserve a Class 2 guaranteed power (7W) for devices connected to this port. Then, it is now sufficient to power up both PoE device and PALUNII.



Guaranteed Power at EverFocus PoE Switch

IEEE PoE Standard	Class	Guaranteed Power at PoE Switch
IEEE802.3af IEEE802.3at (Type 1)	0	15.4W
	1	4W
	2	7W
IEEE802.3at (Type 2)	3	15.4W
	4*	30W

* Class 4 can only be used by IEEE802.3at (Type 2) devices.