



Using a Power Splitter to Power PVIQ Panels

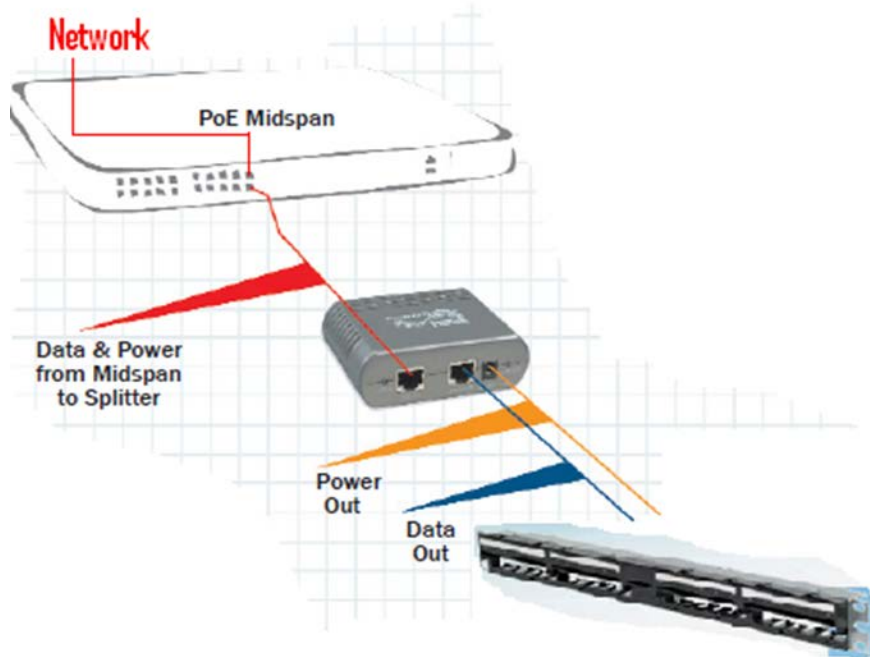
Applies to:	SmartZone PVIQ Panels
Objective:	The purpose of this Technical Reference is to demonstrate how to use a PoE splitter (PowerDsine 701 high power splitter) and a PanView DPOE8S2XG DPOE panel as a power resource for the PanView iQ™ (PVIQ™) Panel Manager.
Pre-Requisites:	Currently the PVIQ Panel Manager only accepts power through a DC jack connector using the brick power converter AC 120V – DC 12V, but a PoE splitter and a DPOE Panel could also be used to power the Panel Manager.

Parts Required

Description	Part Number	Manufacturer
POE Power splitter	PD-AS-701/12	PowerDsine
2.5mm jack to 2.1mm plug adapter	DCA-1	Allied Electronics
2.5mm jack to 2.5mm plug –plug cord	839-1009-ND	Digi-key
Hook and loop cable tie mount	ABMT-S6-C20	Panduit
Hook and loop strip	HLS1.5S-X0	Panduit

Performing the Procedure

General configuration overview



Mounting the PoE splitter using the hook and loop strip

Attach the hook tie mount to the PoE splitter as depicted in figure a and loop the strip through the buckle as show in figure b



Figure a) Hook tie mount attached to power splitter

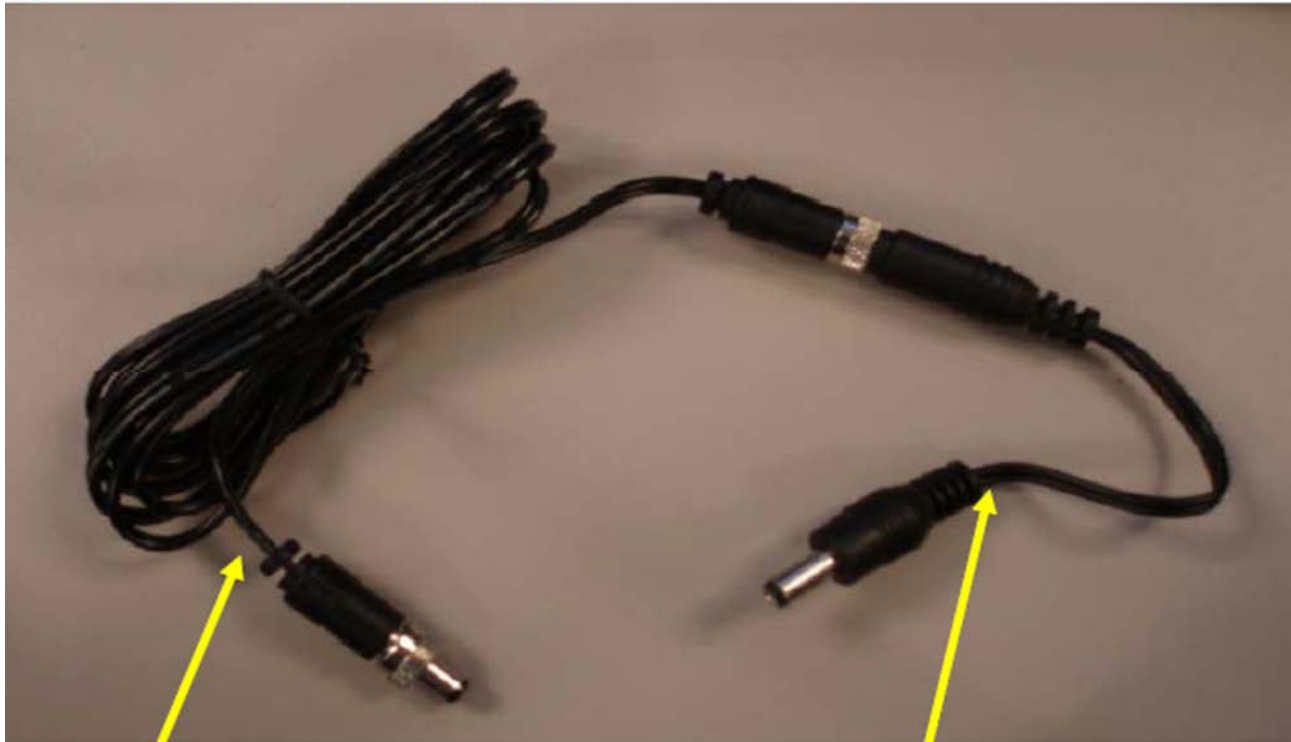


Figure b) Hook and loop strip attached to power splitter

Connect the cable adaptor extension to PViQ panel

Use the jack plug connector to properly accommodate the power input of the PM to the power output cable of the power splitter as depicted in figure c

DC Power Cord - 2.5mm to 2.1mm



2.5mm to 2.5mm Plug-Plug Cord
Digi-key Part #: 839-1009-ND

2.5mm Jack to 2.1mm Plug Adapter
Allied Electronics Part #: DCA-1

[Note: PoE Splitter has a 2.5mm Jack and the PVQ-PM has a 2.1mm jack]

Figure c) 2.5mm cable to 2.1mm conversion using the cable adaptor

Mounting the Power Splitter

Mount the POE power splitters using the hook tie loop behind the rack or in a convenient easy to access location near the Panel Manager as depicted in Figures c and d



Figure d) PoE mounted behind the rack



Figure e) PoE splitter mounted near Panel Manager

Connectivity

Start by making the connection from the network to the DPoE panel (or any other PoE power injector) and to the PoE power splitter ending at the Panel Manager as depicted in Figure e

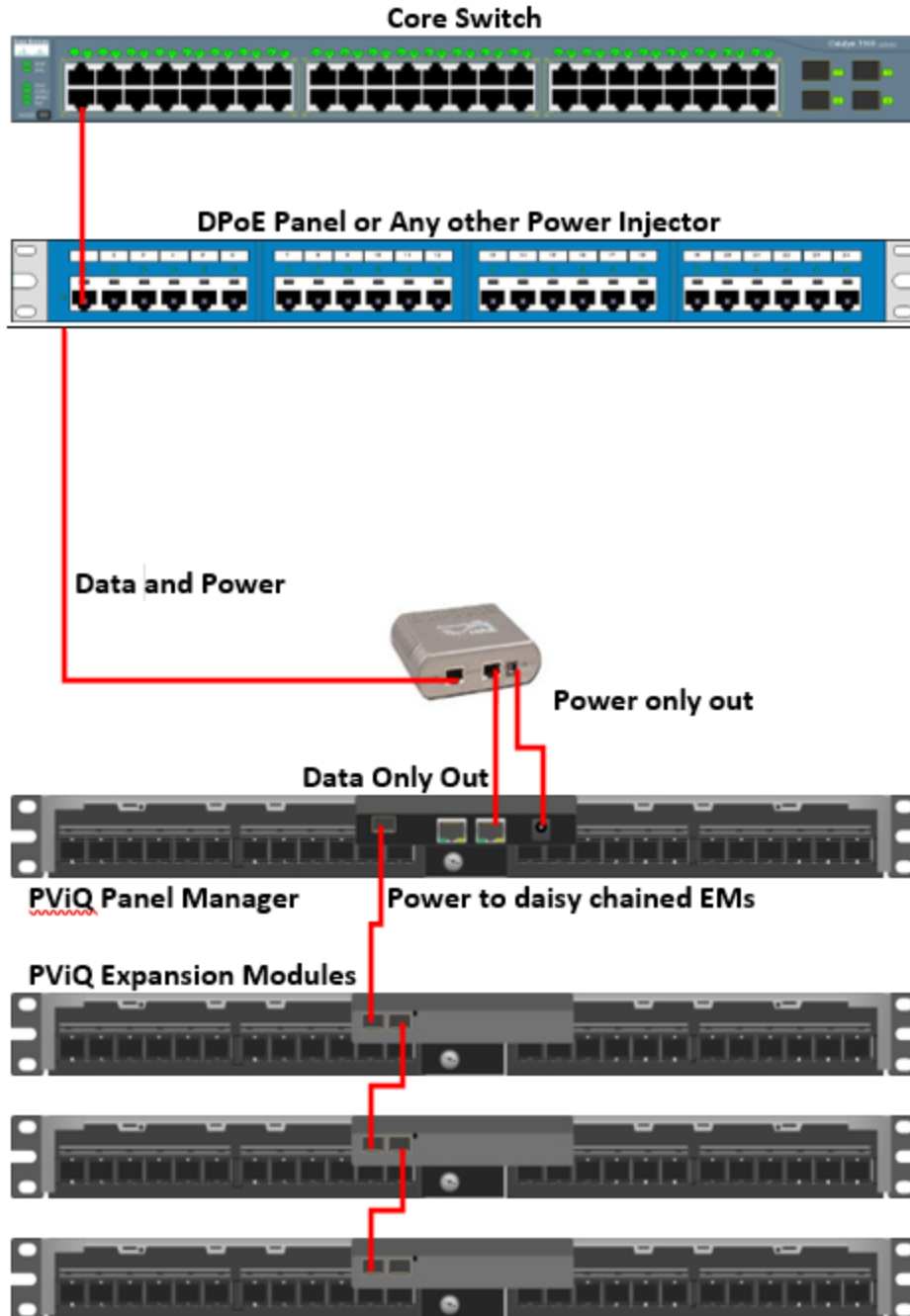


Figure e) Network Connectivity