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Option 14 PoE
Power over Ethernet

Operation Manual



Warning!

This manual **ONLY** provides information about the Power over Ethernet option. It is essential that you read and understand this manual and the entire contents of the **smarty** manual **HG502573**, and the **savvy** software, “Help,” menu before proceeding with your installation and product configuration. For more information and to download product manuals and software, go to **www.driveweb.com**.



Warning!

Information in this manual is subject to change without notice. You are responsible for verifying the proper operation of your **smarty** module.

drive.web Power over Ethernet Overview

📶 This option is installed at the factory. To find out if your **drive.web** device includes this option, look for **-14** in the option group after the model number, on the product label. Alternatively, right-click on the device icon in **savvy** and choose Get Detailed Information. “Power over Ethernet [Option 14],” is listed under, “Hardware Capabilities,” when this option is installed.

📶 This option is only available with new generation **drive.web** products, model number dw210 - dw219. It is NOT available with the original **drive.web** product line, model numbers dw110 - dw121.

📶 Power your **drive.web** device from any IEEE802.3 PoE switch or Midspan Injector.


📶 Use as a power fail-safe. Your device will continue to run seamlessly if its standard 24VDC source is interrupted.

📶 Power other 24VDC devices from your **drive.web** device. Up to 270mA total output from your **drive.web** device is available.


📶 All **drive.web** products are **designed and manufactured in the USA.**





smarty Power over Ethernet Specifications


 This option is compliant with **IEEE802.3**. It is a Powered Device, **PD**, for use with Power Supplying Equipment, **PSE**, in Mode A or B.




 With this option installed, the Power over Ethernet circuitry is always active. If a PSE is connected to your ethernet cable, the PoE LED on the front of your **drive.web** device will be lit and 24VDC will be available. Whenever your external power supply falls below ~23VDC, current will flow from the PoE circuit to power your device.


 Standard 25kOhm impedance is presented to Detection stage Voltage


 Classification is **Class 0**, 0.44 to 12.94 Watts. In fact after conversion losses and normal **drive.web** device power consumption of ~3.2 Watts, **~6.5 Watts is available for 24VDC loads.**


 Maintain Power Signature is always present once the PoE circuit is validated. Approximately 16 mA @ 48VDC is drawn from the PSE even when your **drive.web** device is powered separately by its external 24VDC supply.


 Crossover cables may be used but are not required.


smarty Power over Ethernet Troubleshooting

 It is possible to overload the Power over Ethernet circuitry. Overloads are indicated by the PSE. Check the documentation for your PoE Switch or Midspan Injector. Most devices provide LED indications of overload conditions.

 Attempting to supply more than 270mA @ 24VDC from your **drive.web** device will result in overloads. Remember each of **smarty's** 8 Digital Outputs in Source mode can deliver up to 50 mA at 24VDC. Also, any devices connected to your **drive.web** device's 24V terminal will be supplied by PoE when no other source is provided.

 Ethernet cables should have a standard RJ45 plug at both ends. Connection should be direct from the PSE to your **drive.web** device with no splitters, splices or hubs in between.

 If the PoE LED is not lit when you expect it to be and there are no LED indicators at your PSE, remove all loads from your **drive.web** device. The terminal block plugs are removable. If the LED turns on, replace the loads one by one until you identify the overload.

 If the PoE LED does not light with all terminal block plugs removed, your PoE switch, Midspan Injector or Ethernet cable may be defective and require replacement.

Contact us for complete support:

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