

# Spectrum SCS-90W-SPL-B

Rugged Gigabit IEEE 802.3bt PoE Splitter

## Key Features

- 1 x 10/100/1000M TX for PoE IN
- 1 x 10/100/1000M TX for DATA OUT
- Output Voltage: Selectable 12VDC (4A) or 24VDC (2A) by DIP Switch (with 90W PoE input)
- Operating temperature range of -40 to +75°C (-40°F to 167°F).



## Description

The Spectrum SCS-90W-SPL-B industrial rugged Gigabit PoE splitter features 1 x 10/100/1000M TX PoE IN and 1 x 10/100/1000M TX PoE OUT. It supports input power ranging from 60W to 90W PSE. With a 90W PoE input, the output voltage can be adjusted to either 12VDC(4A) or 24VDC(2A) via a DIP switch or delivering 802.3bt PoE output.

This device is ideal for scenarios where a dedicated DC power source is unavailable or when PoE output is needed while sharing the input power with a DC output.

Engineered for harsh industrial environments, the splitter operates in temperatures ranging from -40°C to +75°C. It offers a reliable, high-performance solution for a wide range of industrial applications.

# Specifications

## Spectrum SCS-90W-SPL-B

### DISPLAY

|               |                                              |
|---------------|----------------------------------------------|
| LED Indicator | <u>IN (PoE IN) (Green):</u>                  |
|               | ON - PoE Power Input is detected             |
|               | OFF - PoE Power Input is not detected        |
|               | <u>bt (PoE IN) (Green):</u>                  |
|               | ON - IEEE 802.3 bt PoE IN is detected        |
|               | OFF - IEEE 802.3 bt PoE IN is not detected   |
|               | <u>Out (PoE OUT) (Amber):</u>                |
|               | ON - PD is detected                          |
|               | OFF - PD is not detected                     |
|               | <u>24V (Green):</u>                          |
|               | ON - DC 24V Power Output from Terminal Block |
|               | <u>12V (Green):</u>                          |
|               | ON - DC 12V Power Output from Terminal Block |

### DIP SWITCH

24V - 24VDC (2A) Output (Default)  
12V - 12VDC (4A) Output

### TERMINAL BLOCK

|                          |                                                                                                                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Removable Terminal Block | 3 pin terminal block for power output<br>Wire range: 1.5mm <sup>2</sup><br>Solid wire (AWG): 16-28<br>Stranded Wire (AWG): 16-28<br>Torque: 3lbs-In / 0.2Nm<br>Wire Strip Length: 6-7mm (0.24-0.28") |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### NETWORK

|                  |                                                                   |
|------------------|-------------------------------------------------------------------|
| Connector (RJ45) | 1 x Gigabit TX Port for PoE 'IN'<br>1 x Gigabit TX for Data 'OUT' |
| Cable            | UTP / STP Cat.5e or above<br>EIA / TIA - 568 (100m)               |
| Protocol         | CSMA / CD                                                         |

### POWER

|                             |                                                                                                                     |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------|
| PoE Input                   | 60W / 90W                                                                                                           |
| Output                      | <u>PoE Output:</u><br>802.3 af/bt TX PoE Output<br><u>DC Power Output:</u><br>24VDC (2A), 12VDC (4A) @802.3bt Input |
| Consumption                 | 2.8W @ PoE IN                                                                                                       |
| Overload Current Protection | Present                                                                                                             |

### OPERATING & STORAGE

|                    |                                |
|--------------------|--------------------------------|
| Operating Temp     | -40°C to 75°C (-40°F to 167°F) |
| Operating Humidity | 5% to 95% (Non-condensing)     |
| Storage Temp       | -40°C to 85°C (-40°F to 185°F) |

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| MTBF (Mean Time Between Failure) | 545,654,1135 Hours (Telcordia (Bellcore), GB) at 50°C |
|----------------------------------|-------------------------------------------------------|

### STANDARDS

|          |                                                                                                                  |
|----------|------------------------------------------------------------------------------------------------------------------|
| Ethernet | IEEE 802.3 10Base-T Ethernet<br>IEEE 802.3u 100Base-TX Fast Ethernet<br>IEEE 802.3ab 1000Base-T Gigabit Ethernet |
| PoE      | IEEE 802.3af PoE<br>IEEE 802.3at PoE+<br>IEEE 802.3bt POE++                                                      |

### CERTIFICATIONS

|           |                                                                                                                                        |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------|
| Safety    | UL 62368-1, cMETus (UL 60950-1)                                                                                                        |
| EMC       | CE, FCC, EN 55032 / 35                                                                                                                 |
| EMI       | CISPR 32, FCC Part 15B Class A                                                                                                         |
| EMS       | IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV<br>IEC 61000-4-4 EFT: Powr: 2KV; Signal: 2KV<br>IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV |
| Vibration | EN 60068-2-6                                                                                                                           |
| Shock     | EN 60068-2-27                                                                                                                          |
| Free Fall | En 60068-2-32                                                                                                                          |

### GENERAL

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| Material              | Rugged Metal                                             |
| IP Rating             | IP30                                                     |
| Dimensions            | L = 100.5mm (3.96") x W = 60mm (2.36") x D = 25.5mm (1") |
| Installation Mounting | DIN Rail or Wall Mount                                   |

## Dimensions (mm/inches)

