



Netway
SPECTRUM



Hardened PoE Switches & Fiber Media Converters

*Deploy devices at longer distances
with or without local power...*



The NetWay Spectrum series by Altronix takes fiber and power to a new level. Indoor and outdoor models include hardened Ethernet PoE switches and multi-port media converters with or without integral power. Units can be deployed with conventional single or multi-mode fiber...or composite cable which combines fiber with copper to simultaneously deliver power and data. NetWay Spectrum also features LINQ™ Network Management Technology to remotely monitor, control and report power/diagnostics from anywhere. Go further with NetWay Spectrum from Altronix.

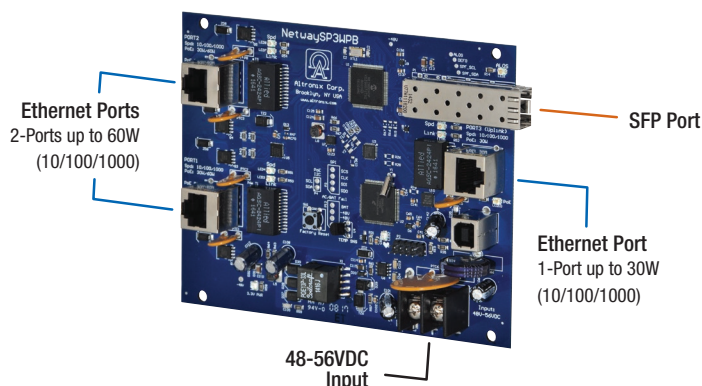
- **NetWay Spectrum** is the solution for deploying devices over fiber infrastructure with or without local power.
- **NetWay Spectrum** is designed and manufactured for use in harsh environments at greater distances.
- **NetWay Spectrum** offers a series of hardened switches with optimized Lithium Iron Phosphate (LiFePO4) battery backup.
- **NetWay Spectrum** comes in a wide range of models for indoor and outdoor applications.
- **NetWay Spectrum** hardened PoE switches, media converters and power supply/chargers are available pre-configured or separately, as subcomponents to customize your system.
- **NetWay Spectrum** features embedded **LINQ™ Network Management Technology** to remotely monitor, control and report power/diagnostics – streamlining service and maintenance operations by leveraging the network. A built-in timer can reset devices automatically on a schedule.
- **NetWay Spectrum** products are proudly Made in the U.S.A. and backed by a Lifetime Warranty.



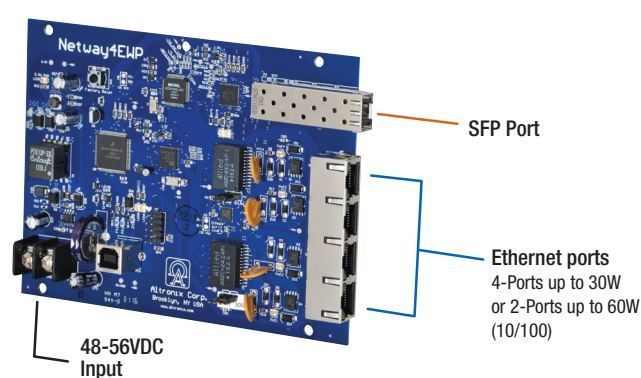
Merging infrastructure with emerging technology.™

Hardened PoE Switches (Boards)

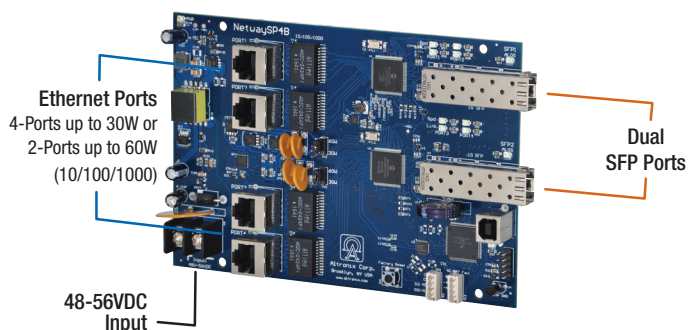
NetWaySP3B - Hardened PoE Switch



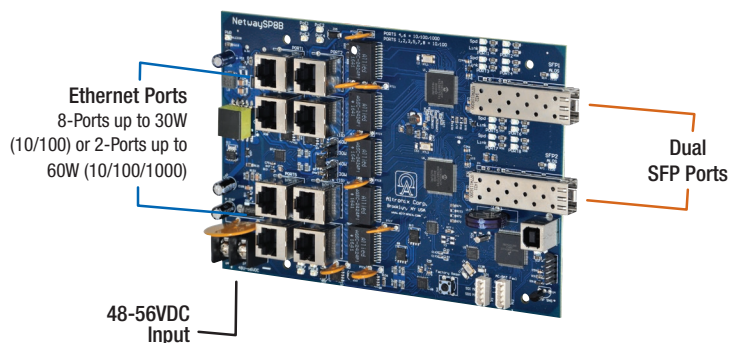
NetWay4EB - Hardened PoE Switch



NetWaySP4B - Hardened PoE Switch




NetWaySP8B - Hardened PoE Switch



Switch in NEMA 4/4X Small Outdoor Enclosure	Switch in NEMA 4/4X Outdoor Enclosure	Switch and Power Supply/Charger on Backplane	Switch and Power Supply/Charger in Outdoor Enclosure	Switch and Power Supply/Charger in Larger Outdoor Enclosure	Switch and Power Supply/Charger in Indoor Enclosure
Dimensions: 7.32"W x 9.5"H x 4.92"D	Dimensions: 13.31"H x 11.31"W x 5.59"D	Dimensions: 10.75"H x 8.875"W x 2.375"D	Dimensions: 13.31"H x 11.31"W x 5.59"D	Dimensions: 17.53"H x 15.3"W x 6.67"D	Dimensions: 13.5"H x 13"W x 3.25"D
NetWaySP1BTWPN	NetWaySP3WPN	NetWaySP3PL	NetWaySP1BTWP	NetWaySP1BTWPX	NetWaySP3X
	NetWay4EWPN	NetWay4EPL	NetWaySP3WP	NetWaySP3(L)WPX	NetWay4EX
	NetWaySP4WPN	NetWaySP4PL	NetWay4EWP	NetWay4E(L)WPX	NetWaySP4X
	NetWaySP8WPN	NetWaySP8PL	NetWaySP4WP	NetWaySP4(L)WPX	NetWaySP8X
			NetWaySP8WP	NetWaySP8(L)WPX	

Hardened PoE Switches with Power Supply/Chargers and Optimized Lithium Iron Phosphate Battery Charging

Model	Configuration	SFP port(s)	10/100 Ethernet ports	10/100/1000 Ethernet ports	PoE ports	Input: 115/230VAC	Built-in LiFePO4 Battery Charger	Accommodates LiFePO4 Batteries
NetWaySP3LWPX	Large Outdoor Enclosure NEMA 4/4X, IP66	1	—	3	3-Ports rated up to 30W or 1-Port rated up to 60W (75W total power)	✓	✓	✓
NetWay4ELWPX	Large Outdoor Enclosure NEMA 4/4X, IP66	1	4	—	4-Ports rated up to 30W or 1-Port rated up to 60W (75W total power)	✓	✓	✓
NetWaySP4LWPX	Large Outdoor Enclosure NEMA 4/4X, IP66	2	—	4	4-Ports rated up to 30W or 1-Port rated up to 60W (75W total power)	✓	✓	✓
NetWaySP8LWPX	Large Outdoor Enclosure NEMA 4/4X, IP66	2	6	2	8-Ports rated up to 30W or 1-Port rated up to 60W (75W total power)	✓	✓	✓
		NetWay Spectrum PoE Switches feature embedded LINQ™ Network Management Technology which let's you remotely monitor, control and report power/diagnostics from anywhere over the network.						

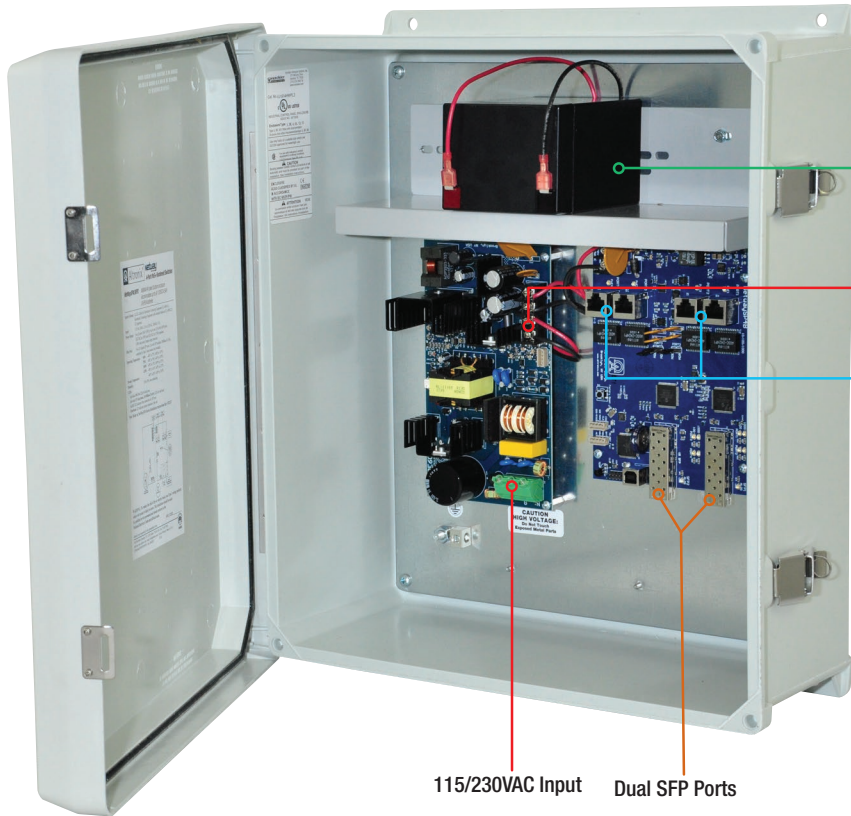
BTL125

Altronix BTL125 rechargeable Lithium Iron Phosphate (LiFePO4) Battery provides optimal backup for security, access, and surveillance applications.

- Can be used Altronix Spectrum fiber optic equipment with an Optimized Lithium Iron Phosphate Battery charging circuit.
- Smart technology - low power disconnect.
- 10 years shelf life.
- Up to 5,000 duty cycles.
- Environmentally friendly.



Hardened PoE Switches with Power Supply/Chargers and Optimized Lithium Iron Phosphate Battery Charging



LiFePO4 -
Lithium Iron Phosphate Battery
(Altronix model # BTL125)

BAT Terminals -
Lithium Iron Phosphate Battery
(Altronix model # BTL125)

**100/1000 Ethernet
(PoE) Ports**

115/230VAC Input Dual SFP Ports

LINQ
TECHNOLOGY

**Network Management
Technology -**
remotely monitor, control & report
power/diagnostics over the network

Lithium Iron Phosphate Battery Benefits:



Light weight:

Lithium Iron Phosphate batteries weigh one-third to almost half less than SLA batteries

Efficiency:

Up to 99% efficiency, allowing faster charging with minimal loss, SLA batteries lose power quickly during deep discharge



More Up Time:

Lithium Iron Phosphate Batteries allow for rapid charging and discharging

Longer use Life:

Lithium Iron Phosphate Batteries can cycle up to 5000 times vs. SLA up to 500 times

Longer Shelf Life:

Lithium Iron Phosphate Batteries can be shelved up to 10 years, SLA batteries need to be charged every 6 months (often times the batteries coming from overseas have already been sitting for 4+ months)



Cold Temperature:

Lithium Iron Phosphate Batteries have up to 40% more capacity in colder climates

Cost per Cycle:

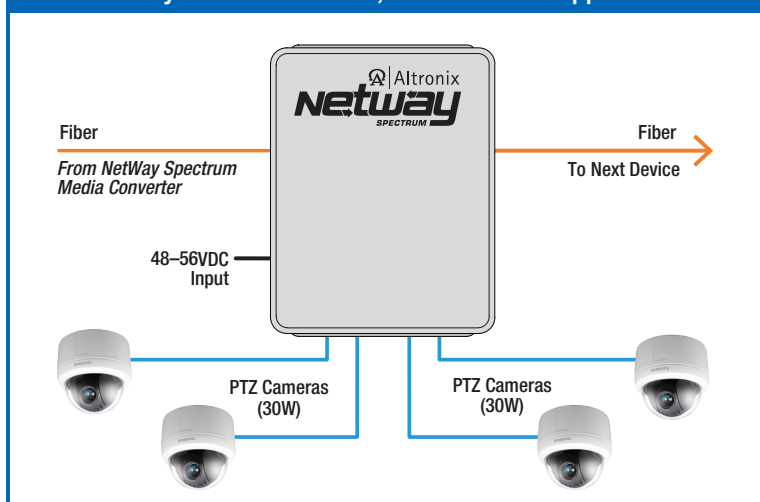
Lithium \$0.31 vs. SLA \$0.92 (real cost per cycle includes maintenance labor, replacement product and labor and electrical costs to charge batteries)



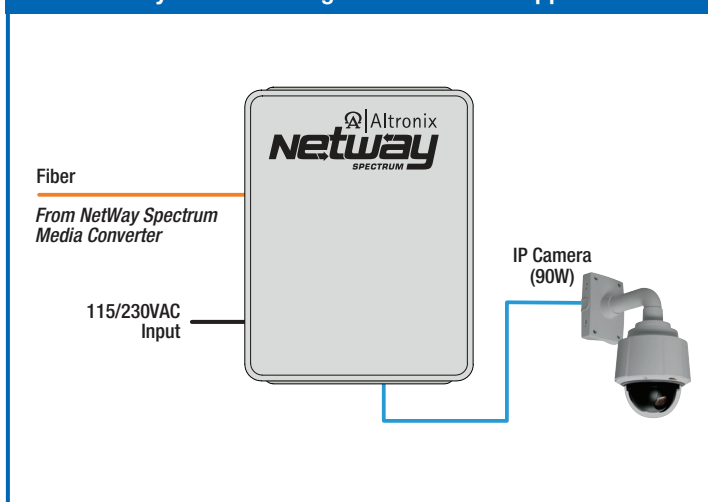
Hardened PoE Switches

Model	Configuration	SFP port(s)	10/100 Ethernet ports	10/100/1000 Ethernet ports	PoE ports	Input: 48-56VDC
NetWaySP1BTWPN	Outdoor Enclosure NEMA 4/4X, IP66	1	—	1	Single 802.3bt Port rated at 90W	✓
NetWaySP3B	Board	1	—	3	3-Ports rated up to 30W or 2-Ports rated up to 60W (120W total power)	✓
NetWaySP3WPN	Outdoor Enclosure NEMA 4/4X, IP66					
NetWay4EB	Board	1	4	—	4-Ports rated up to 30W or 2-Ports rated up to 60W (120W total power)	✓
NetWay4EWPN	Outdoor Enclosure NEMA 4/4X, IP66					
NetWaySP4B	Board	2	—	4	4-Ports rated up to 30W or 2-Ports rated up to 60W (120W total power)	✓
NetWaySP4WPN	Outdoor Enclosure NEMA 4/4X, IP66					
NetWaySP8B	Board	2	6	2	8-Ports rated up to 30W or 2-Ports rated up to 60W (115W total power)	✓
NetWaySP8WPN	Outdoor Enclosure NEMA 4/4X, IP66					

NetWaySP4WPN Dual SFP, 4-PoE Camera Application



NetWaySP1BTWP Single SFP / 802.3bt Application



P1SM10

Single-Mode SFP Module (up to 10km)
P1SM102PK - 2 pk of P1SM10



P1AB2K

Single Strand SFP Modules
(up to 2km)



P1MM

Multi-Mode SFP Module (up to 550m)
P1MM2PK - 2 pk of P1MM



P1GCE

Copper SFP Module
(up to 100m)

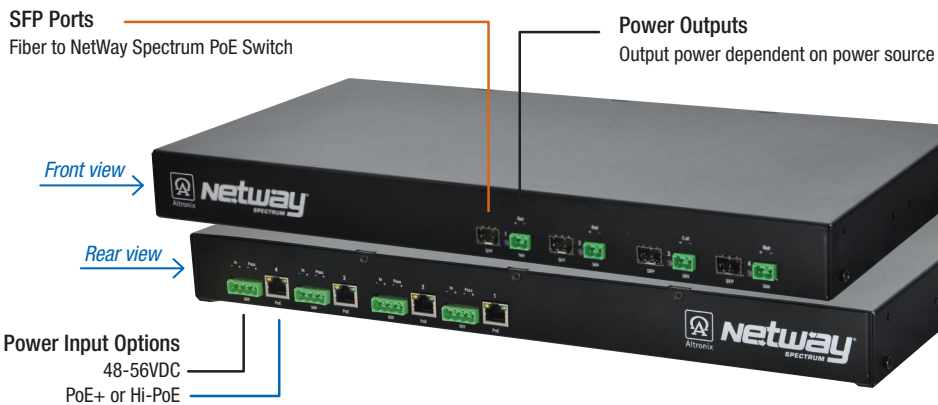


Hardened PoE Switches with Power Supply/Chargers

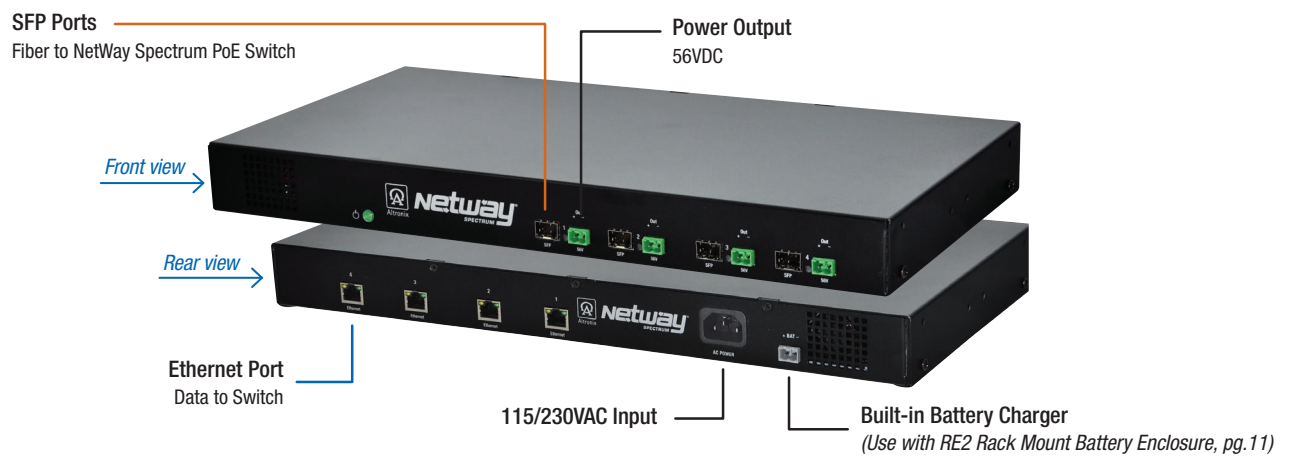
Model	Configuration	SFP port(s)	10/100 Ethernet ports	10/100/1000 Ethernet ports	PoE ports	Input: 115/230VAC	Built-in Battery Charger	Accommodates (4) 12VDC/4AH Batteries
NetWaySP1BTWP	Outdoor Enclosure NEMA 4/4X, IP66	1	—	1	Single 802.3bt Port rated up to 90W	✓	✓	—
NetWaySP3WPX	Large Outdoor Enclosure NEMA 4/4X, IP66							✓
NetWaySP3WP	Outdoor Enclosure NEMA 4/4X, IP66	1	—	3	3-Ports rated up to 30W or 2-Ports rated up to 60W (120W total power)	✓	✓	—
NetWaySP3WPX	Large Outdoor Enclosure NEMA 4/4X, IP66							✓
NetWaySP3PL	Backplane Version							—
NetWay3X	Indoor Enclosure NEMA 1							—
NetWay4EWP	Outdoor Enclosure NEMA 4/4X, IP66	1	4	—	4-Ports rated up to 30W or 2-Ports rated up to 60W (120W total power)	✓	✓	—
NetWay4EWPX	Large Outdoor Enclosure NEMA 4/4X, IP66							✓
NetWay4EPL	Backplane Version							—
NetWay4EX	Indoor Enclosure NEMA 1							—
NetWaySP4WP	Outdoor Enclosure NEMA 4/4X, IP66	2	—	4	4-Ports rated up to 30W or 2-Ports rated up to 60W (120W total power)	✓	✓	—
NetWaySP4WPX	Large Outdoor Enclosure NEMA 4/4X, IP66							✓
NetWaySP4PL	Backplane Version							—
NetWaySP4X	Indoor Enclosure NEMA 1							—
NetWaySP8WP	Outdoor Enclosure NEMA 4/4X, IP66	2	6	2	8-Ports rated up to 30W or 2-Ports rated up to 60W (120W total power)	✓	✓	—
NetWaySP8WPX	Large Outdoor Enclosure NEMA 4/4X, IP66							✓
NetWaySP8PL	Backplane Version							—
NetWaySP8X	Indoor Enclosure NEMA 1							—

Media Converters

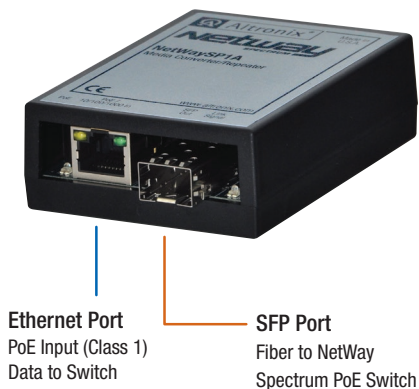
NetWaySP4 - 4-Port Media Converter



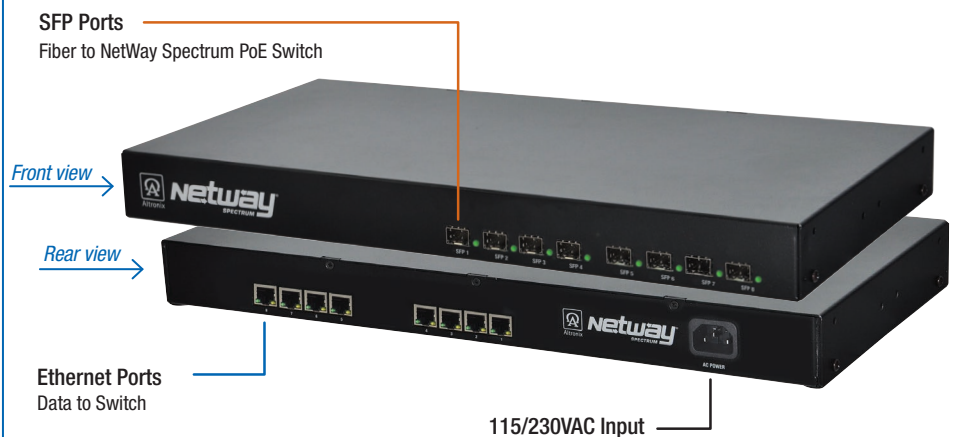
NetWaySP4P - 4-Port Media Converter with Integral Power / NetWaySP4P2 - 4-Port Media Converter with Integral Power (Class 2 Rated Outputs)



NetWaySP1A - Single Port Media Converter



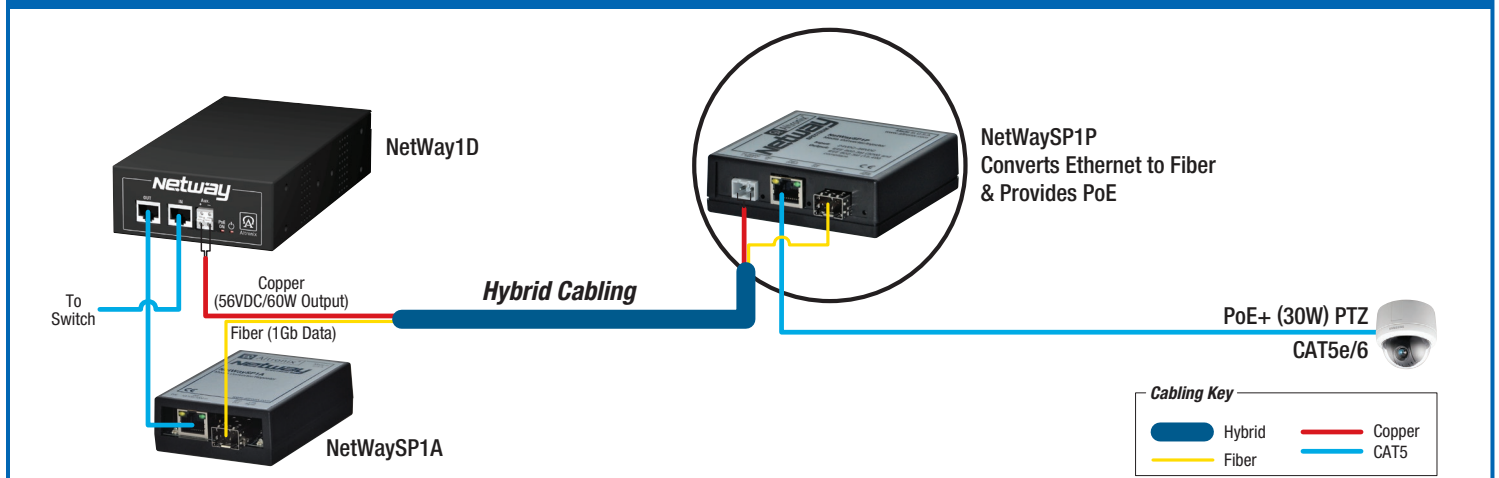
NetWaySP8A - 8-Port Media Converter (16-Port version available)



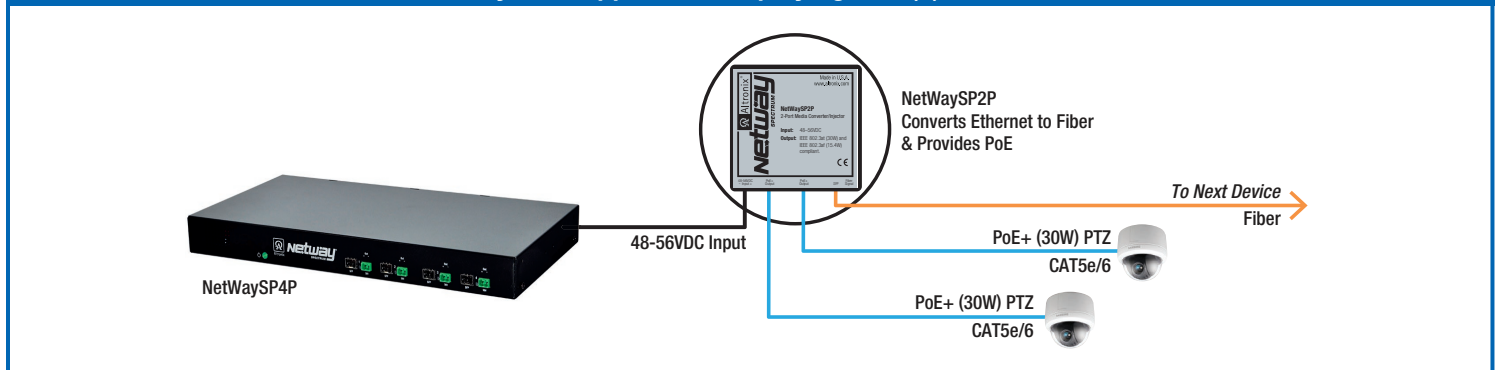
Media Converters

Model	Configuration	SFP port(s)	10/100/1000 Ethernet ports	PoE Ports	Class 2 power limited Outputs	56VDC Power Output	Integral Power Supply/Charger	Power Input	Built-in Battery Charger
NetWaySP4	1U Rack Mount	4	4	Supports up to 60W max per port	—	✓	—	48-56VDC or PoE+ (30W) / Hi-PoE (60W)	—
NetWaySP4P				120W max per port (240W total power)	—		✓	115/230VAC	✓
NetWaySP4P2				60W max per port (240W total power)	✓		✓	115/230VAC	✓
NetWaySP1BT	Modular Case	1	1	90W max	—	—	—	48VDC to 56VDC	—
NetWaySP1P	Modular Case	1	1	30W max	—	—	—	24VDC to 56VDC	—
NetWaySP2P	Modular Case	1	2	30W max per port	—	—	—	48VDC to 56VDC	—
NetWaySP1A	Modular Case	1	1	N/A	—	—	—	PoE (Class 1)	—
NetWaySP8A	1U Rack Mount	8	8					115/230VAC	
NetWaySP16A	1U Rack Mount	16	16					115/230VAC	

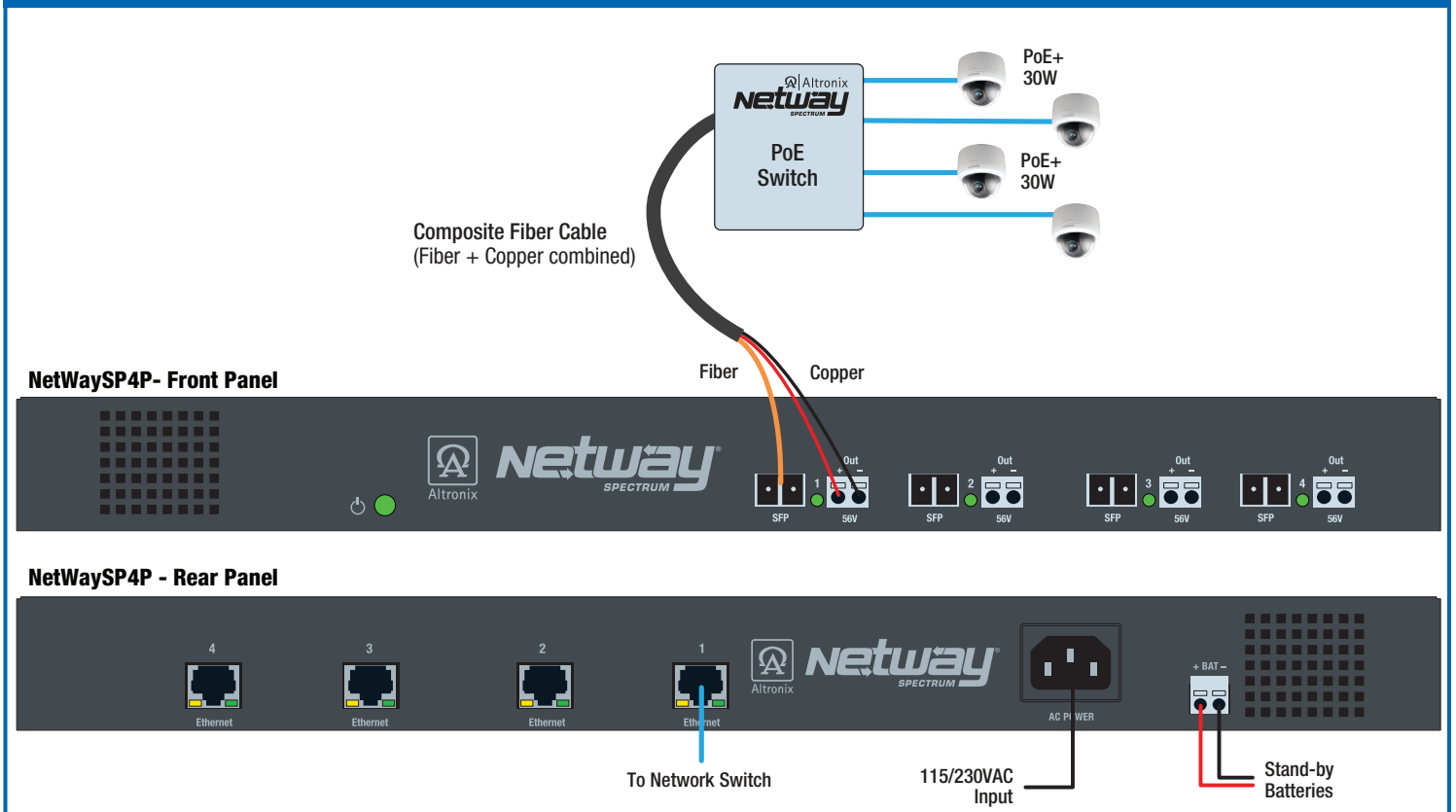
NetWaySP1A / NetWaySP1P Application Utilizing Composite (Hybrid) Cable



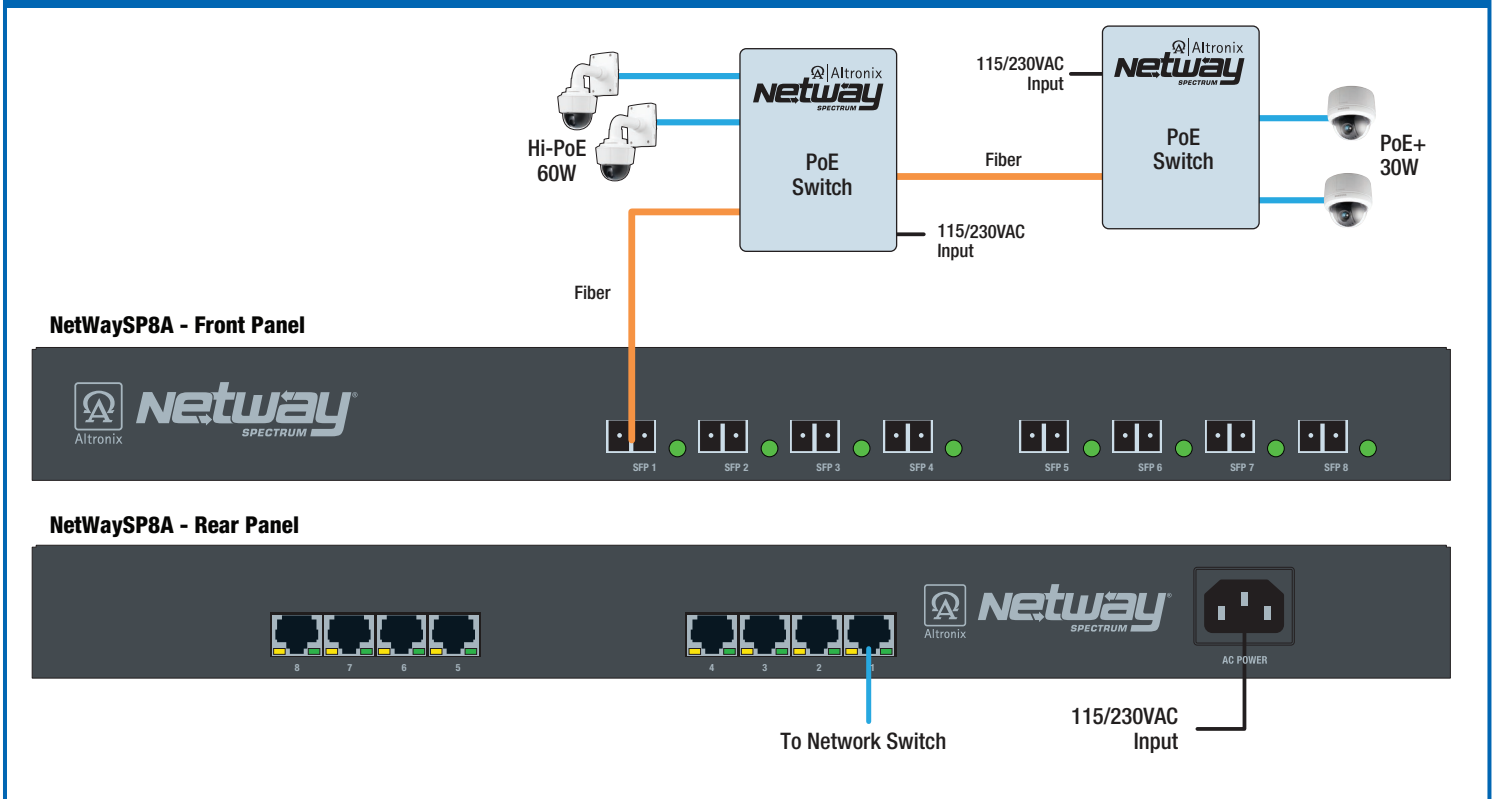
NetWaySP2P Application Deploying Two (2) IP Devices



NetWaySP4P Application Generating Power from the Head-End



NetWaySP8A Application Utilizing Local Power at Remote PoE Switches



Power Sources for NetWay Spectrum

Model	Description	Input	Total Output Power	Number of Outputs	Built-in Battery Charger	Dimensions (LxWxH)
PoE60	 Power Supply/Charger	115/ 230VAC	56VDC / 75W	1	Charges LiFePO4 Batteries	7.19" x 4" x 2" (board only)
PoE201	 Power Supply/Charger	115/ 230VAC	56VDC / 120W	1	✓	4" x 7" x 1.375" (board only)
NetWay1D	 Single Port Midspan/Injector	115/ 230VAC	60W / 56VDC	1	—	4.1" x 7.2" x 1.7"
NetWay8BT	 8-Port Managed Switch LINQ Technology	115/ 230VAC	90W (480W max)	8	✓	1U Rack Mount
NetWay8E	 8-Port Managed Switch LINQ Technology	115/ 230VAC	30W (240W max)	8	✓	1U Rack Mount
NetWay8G NetWay16G	 8/16-Port Managed Switch LINQ Technology	115/ 230VAC	30W (240W / 480W max)	8 / 16	✓	1U Rack Mount
NetWay8GL	 8-Port Managed Switch LINQ Technology	115/ 230VAC	60W (240W max)	8	✓	1U Rack Mount
NetWay8GP	 8-Port Managed Switch LINQ Technology	115/ 230VAC	60W (480W max)	8	✓	1U Rack Mount
NetWay8M NetWay16M	 8/16-Port Managed Switch LINQ Technology	115VAC	30W (150W / 300W max)	8 / 16	—	1U Rack Mount
VertiLine48M	 16 Fused / PTC Protected Outputs	115VAC	360W	16	—	2U Rack Mount
VertiLine563	 Dual Output Power Supply/Charger	115VAC	56VDC / 150W	2	✓	1U Rack Mount
VB6	 Dual Output Power Supply/Charger	24VAC / 24VDC	56VDC / 30W	2	—	3.5" x 3.5" x 1"

Accessories for NetWay Spectrum

Model	Description
PMK1	Pole Mount Kit fits WP1, WP3 & WP4 Altronix Outdoor Enclosures (accommodates 2" - 8" dia or 5" square poles)
PMK2	Pole Mount Kit fits WP2 Altronix Outdoor Enclosures (accommodates 2" - 8" dia. or 5" square poles)
RE2	Rack Mount Battery Enclosure (2U) accommodates four (4) 12VDC/7AH batteries.



Rev. 1019



Merging infrastructure with emerging technology.™

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MADE IN THE U.S.A. & BACKED BY A LIFETIME WARRANTY