Altronix®

Netway® SPECTRUM



Hardened PoE Switches & Fiber Media Converters

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

NetWay Spectrum

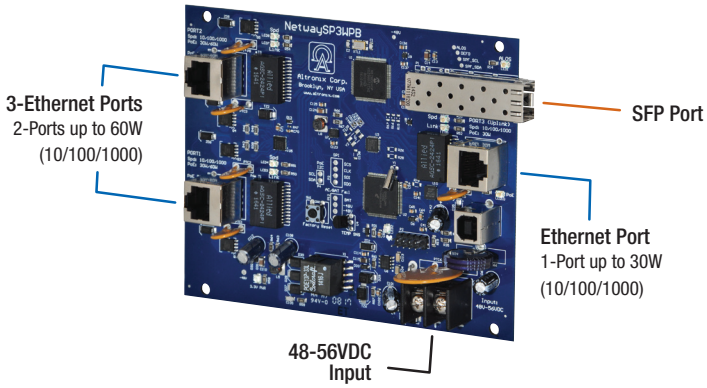
The NetWay Spectrum series by Altronix takes fiber and power to a new level. Indoor and outdoor models include hardened PoE switches and multi-port media converters with or without integral power. Units can be deployed with conventional single or multi-mode fiber…or hybrid cable which combines fiber 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 over the network. **Go further with NetWay Spectrum from Altronix.**

- NetWay Spectrum is the solution for deploying IP devices over fiber optic 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 TAA compliant, NDAA compliant and backed by a Lifetime Warranty.

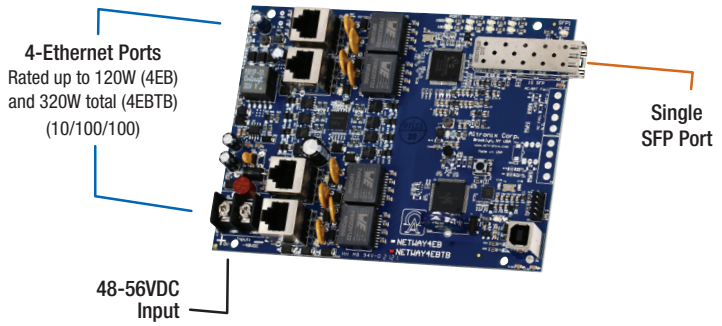
Altronix®

Merging infrastructure with emerging technology.™

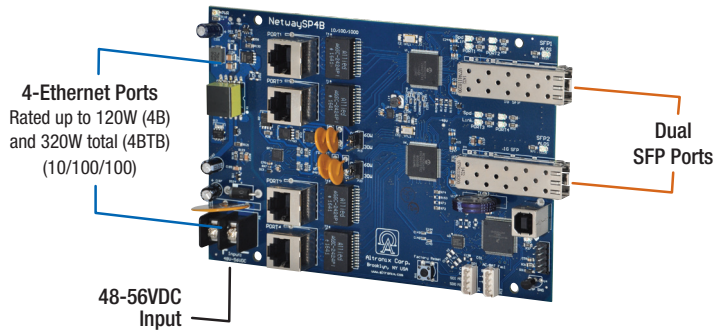
NetWaySP3B - 3-Port Hardened PoE Switch



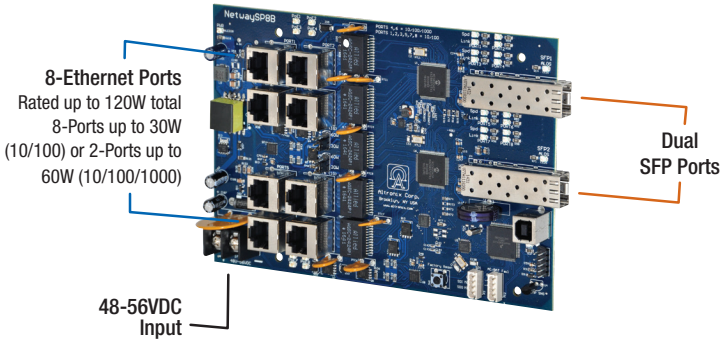
NetWay4EB / NetWay4EBTB 4-Port Hardened PoE Switches



NetWaySP4B / NetWaySP4BTB - 4-Port PoE Switches



NetWaySP8B - 8-Port 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
	NetWay4EBTWPN	NetWay4EBTPL	NetWay4EWP	NetWay4ELWPX	NetWay4EBTX
	NetWaySP4WPN	NetWaySP4PL	NetWay4EBTWP	NetWaySP4(L)WPX	NetWaySP4X
	NetWaySP4BTWPN	NetWaySP4BTPL	NetWaySP4WP	NetWaySP8(L)WPX	NetWaySP4BTX
	NetWaySP8WPN	NetWaySP8PL	NetWaySP4BTWP		NetWaySP8X
			NetWaySP8WP		

Altronix®

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 Battery Charger	Enclosure Accommodates 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)*	✓	LiFePO4	✓
NetWay4ELWPX		1	4	——	4-Ports rated up to 30W or 1-Port rated up to 60W *(75W total power)*	✓	LiFePO4	✓
NetWaySP4LWPX		2	——	4	4-Ports rated up to 30W or 1-Port rated up to 60W *(75W total power)*	✓	LiFePO4	✓
NetWaySP8LWPX		2	6	2	8-Ports rated up to 30W or 1-Port rated up to 60W *(75W total power)*	✓	LiFePO4	✓
Units supporting 802.3bt PoE								
NetWay4EBTWPX	Large Outdoor Enclosure NEMA 4/4X, IP66	1	——	4	4-Ports rated up to 90W *(180W total power)*	✓	LiFePO4, SLA, or Gel	✓
NetWaySP4BTWPX		2						

LINQ™ TECHNOLOGY

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.

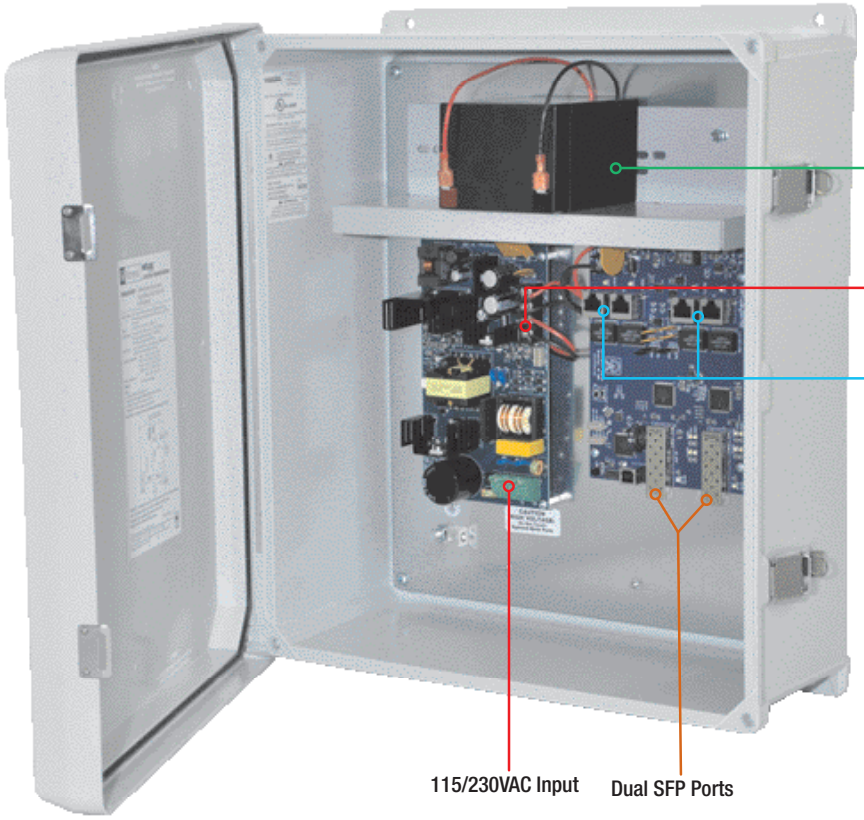


- Use with Altronix NetWay Spectrum fiber optic equipment with Optimized Lithium Iron Phosphate Battery charging circuit.
- Smart technology - low power disconnect.
- 10 years shelf life.
- Up to 5,000 duty cycles.
- Environmentally friendly.

Netway SPECTRUM

c UL us

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



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 shelfed 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

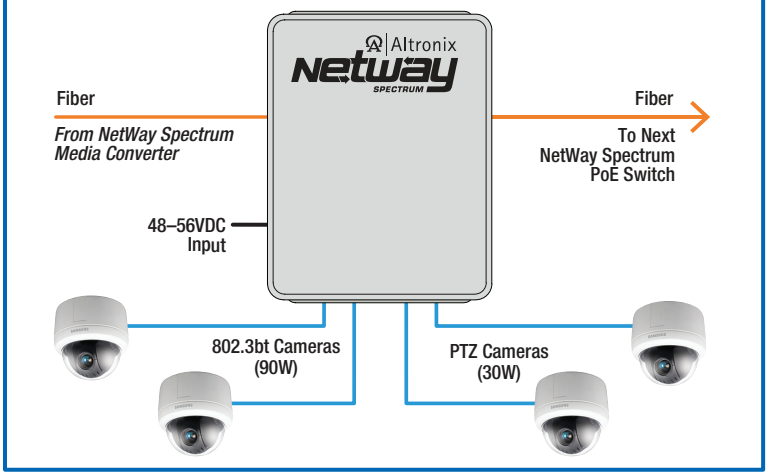
Altronix®

Netway SPECTRUM

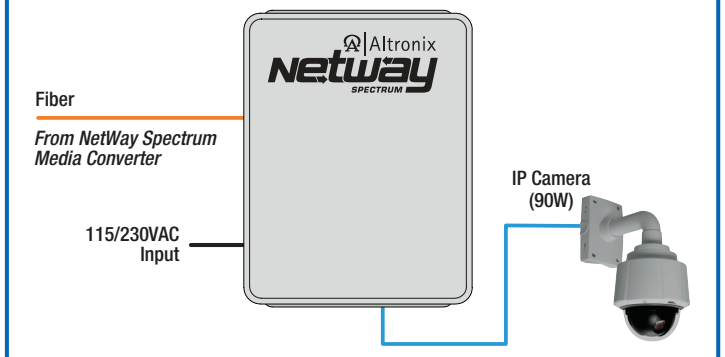
Hardened PoE Switches

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	4-Ports rated up to 30W *(120W total power)*	✓
NetWay4EWPN	Outdoor Enclosure NEMA 4/4X, IP66					
NetWay4EBTB	Board	1	—	4	4-Ports rated up to 90W *(320W total power)*	✓
NetWay4EBTWPN	Outdoor Enclosure NEMA 4/4X, IP66				4-Ports rated up to 90W *(280W total power)*	
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					
NetWaySP4BTB	Board	2	—	4	4-Ports rated up to 90W *(320W total power)*	✓
NetWaySP4BTWPN	Outdoor Enclosure NEMA 4/4X, IP66				4-Ports rated up to 90W *(280W total power)*	
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					

NetWaySP4BTWPN 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)*



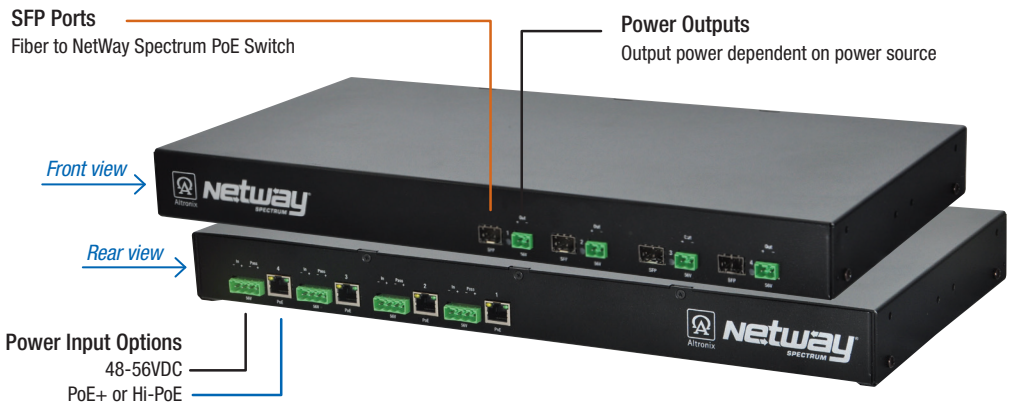
Altronix®

Netway SPECTRUM

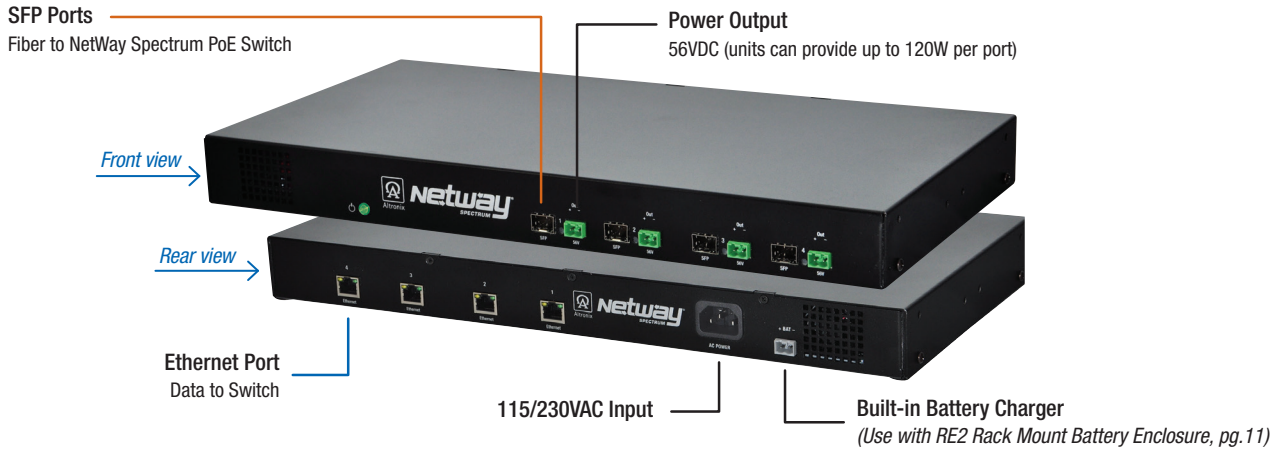
Hardened PoE Switches with Power Supply/Chargers

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 Port (802.3bt) rated up to 90W	✓	✓	—
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	Lg. Outdoor Enclosure NEMA 4/4X, IP66							✓
NetWaySP3PL	Backplane Version							—
NetWaySP3X	Indoor Enclosure							—
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	Lg. Outdoor Enclosure NEMA 4/4X, IP66							✓
NetWay4EPL	Backplane Version							—
NetWay4EX	Indoor Enclosure							—
NetWay4EBTWP	Outdoor Enclosure NEMA 4/4X, IP66	1	—	4	4-Ports rated up to 90W *(240W total power)*	✓	LiFePO4, SLA, or Gel	—
NetWay4EBTWPX	Lg. Outdoor Enclosure NEMA 4/4X, IP66							✓
NetWay4EBTPL	Backplane Version							—
NetWay4EBTX	Indoor Enclosure							—
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	Lg. Outdoor Enclosure NEMA 4/4X, IP66							✓
NetWaySP4PL	Backplane Version							—
NetWaySP4X	Indoor Enclosure							—
NetWaySP4BTWP	Outdoor Enclosure NEMA 4/4X, IP66	2	—	4	4-Ports rated up to 90W *(240W total power)*	✓	LiFePO4, SLA, or Gel	—
NetWaySP4BTWPX	Lg. Outdoor Enclosure NEMA 4/4X, IP66							✓
NetWaySP4BTPL	Backplane Version							—
NetWaySP4BTX	Indoor Enclosure							—
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	Lg. Outdoor Enclosure NEMA 4/4X, IP66							✓
NetWaySP8PL	Backplane Version							—
NetWaySP8X	Indoor Enclosure							—
NetWaySP8WP2	Outdoor Enclosure NEMA 4/4X, IP66	2	6	2	8-Ports rated up to 60W *(160W total power)*	✓	LiFePO4, SLA, or Gel	—
NetWaySP8WPX2	Lg. Outdoor Enclosure NEMA 4/4X, IP66							✓

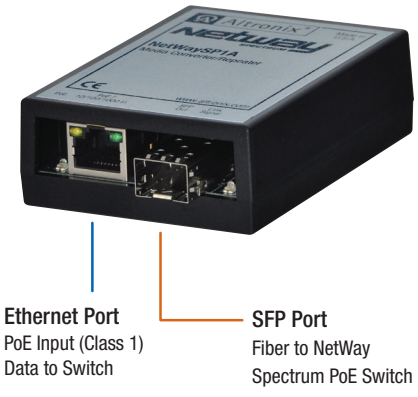
NetWaySP4 - 4-Port Media Converter



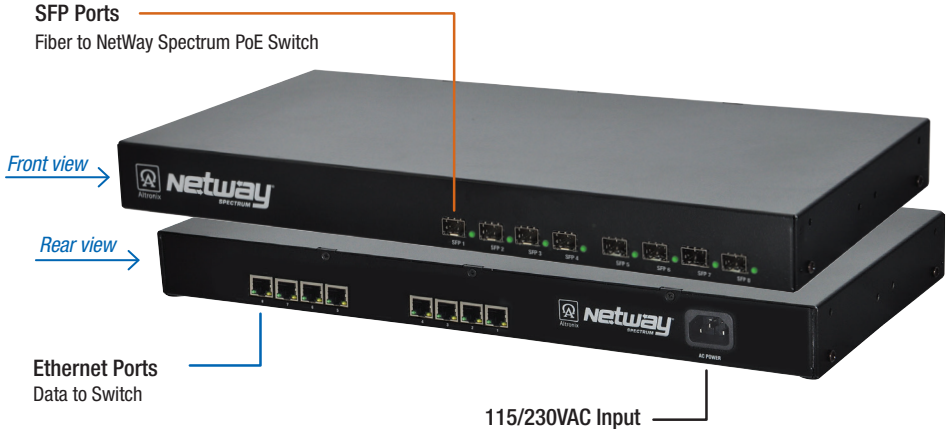
NetWaySP4P / NetWaySP4P2 / NetWaySP4PX - 4-Port Media Converters with Integral Power



NetWaySP1A - Single Port Media Converter



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

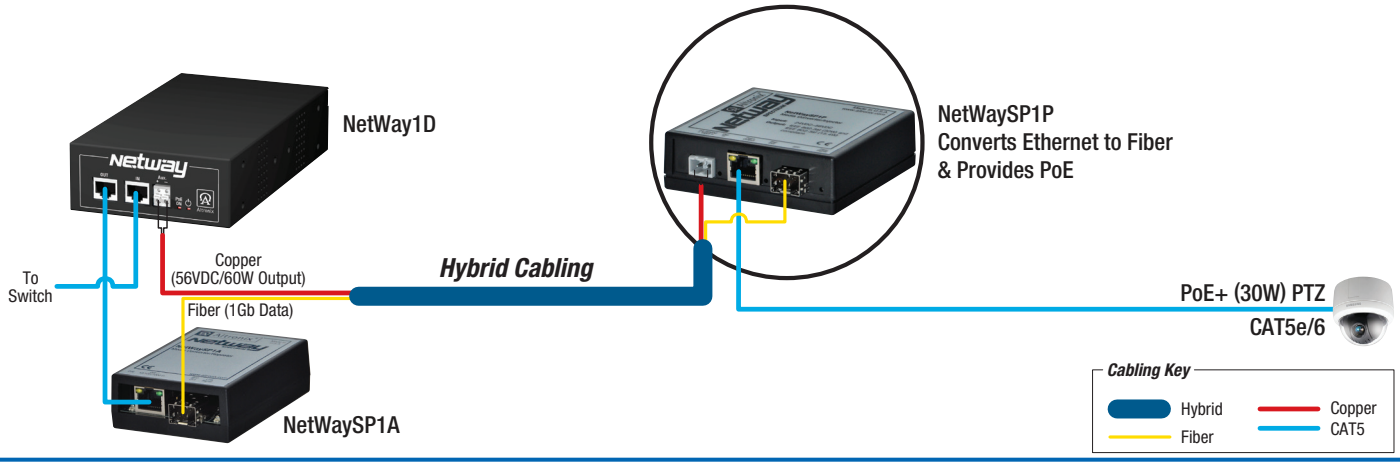


Netway SPECTRUM

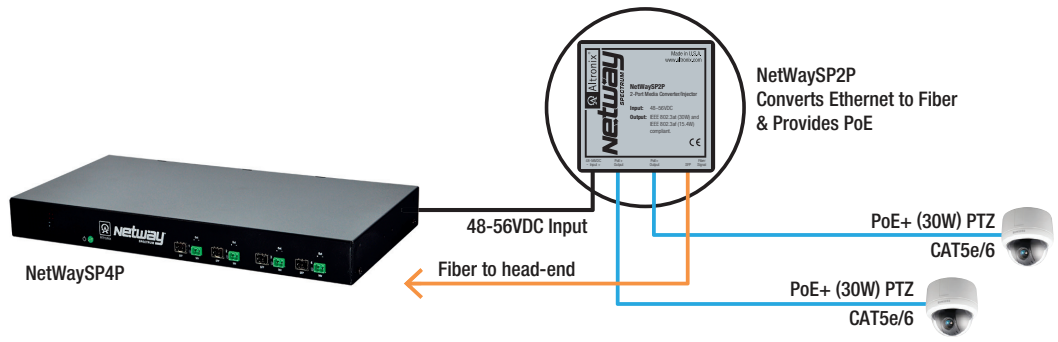
Media Converters

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	✓
NetWaySP4PX				120W max per port *(480W 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

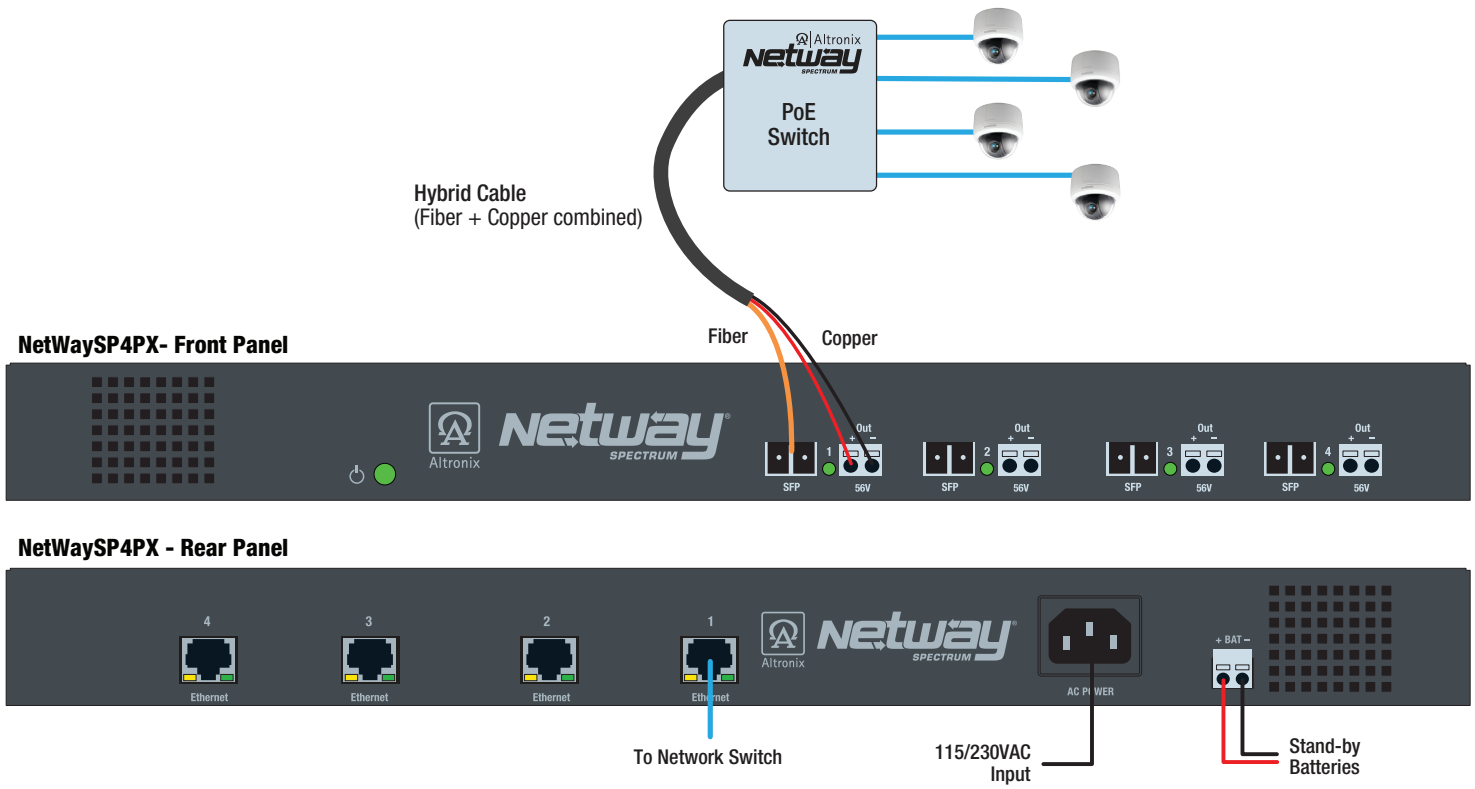


NetWaySP2P Application Deploying Two (2) IP Devices

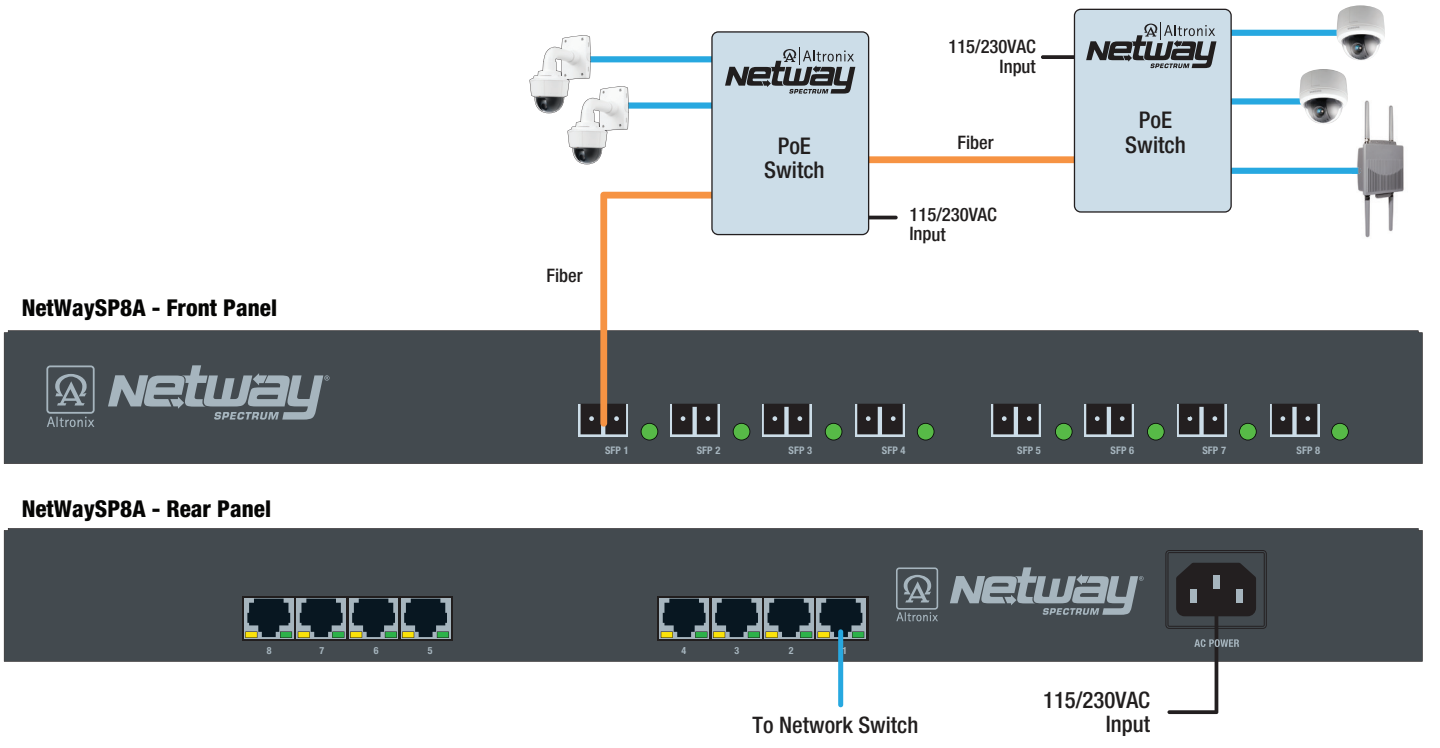


Altronix®

NetWaySP4PX Application Generating Power from the Head-End

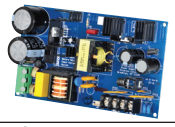
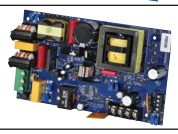


NetWaySP8A Application Utilizing Local Power at Remote PoE Switches



Altronix®

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	4" x 7.19" x 2" (board only)
PoE201 	Power Supply/Charger	115/ 230VAC	56VDC / 120W	1	✓	4" x 7" x 1.375" (board only)
PoE240 	Power Supply/Charger	115/ 230VAC	56VDC / 240W	1	Charges LiFePO4, SLA, or Gel	4" x 7" x 1.375" (board only)
NetWay1D NetWay1BT 	Single Port Injector	115/ 230VAC	60W / 56VDC 90W max	1	——	4.1" x 7.2" x 1.7"
NetWay4BT NetWay8BT 	4/8-Port Managed Midspan LINQ Technology	115/ 230VAC	90W (480W max)	4 / 8	✓	1U Rack Mount
NetWay8G NetWay16G 	8/16-Port Managed Switch LINQ Technology	115/ 230VAC	30W (240W / 480W max)	8 / 16	✓	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. 0122



Altronix®

Merging infrastructure with emerging technology.™

Altronix / 140 58th Street / Brooklyn, NY 11220 / 718.567.8181 / info@altronix.com / altronix.com

BACKED BY A LIFETIME WARRANTY