

Altronix

Netway[®]
SPECTRUM

HARDENED PoE SWITCHES & FIBER MEDIA CONVERTERS

DEPLOY IP DEVICES AT REMOTE LOCATIONS
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 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 ideal solution for deploying IP devices in remote locations with or without local power, utilizing fiber optic infrastructure.
- **NetWay Spectrum** is designed and manufactured for use in harsh environments at greater distances.
- **NetWay Spectrum** offers a series of hardened PoE 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** offers an integral rapid battery charger to charge 32AH batteries in under 8 hours keeping devices operating at the pole when constant power is not available.
- **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.










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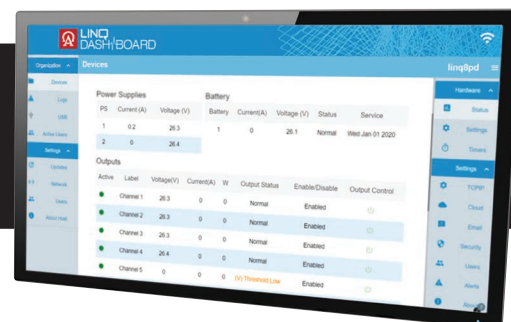
Merging infrastructure with emerging technology.™

Configuration options

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
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
			
Switch and Power Supply/Charger in Large Outdoor Enclosure with Battery Shelf	Switch and Power Supply/Charger in Larger Outdoor Enclosure with Battery Shelf	Switch and Power Supply/Charger in Indoor Enclosure	
Dimensions: 17.53"H x 15.3"W x 6.67"D	Dimensions: 19.31"H x 17.32"W x 9.58"D	Dimensions: 13.5"H x 13"W x 3.25"D	
			



Remote Network Power Management Technology



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. Stay alert, resolve issues, and control power from anywhere over the network.

- Eliminate truck rolls and increase RMR.
- Provides local and/or remote access to critical linformation via LAN/WAN.
- Report system diagnostics via **LINQ™ Dashboard** and/or email alert notification.
- Programmable voltage and current threshold.
- Control output and power supply via flexible timing parameters.
- Power cycle mode, Timer Scheduler, FACP override, Battery backup.
- Programmable time events.
- Third-party-certified cybersecurity.
- Individual password protected user levels.
- Manage and maintain security devices over multiple sites via **Altronix LINQ™ DashBoard**. Intuitive IP communication software solution to remotely monitor, report, and control any combination of individu or multiple groups of products across any number of locations and systems.



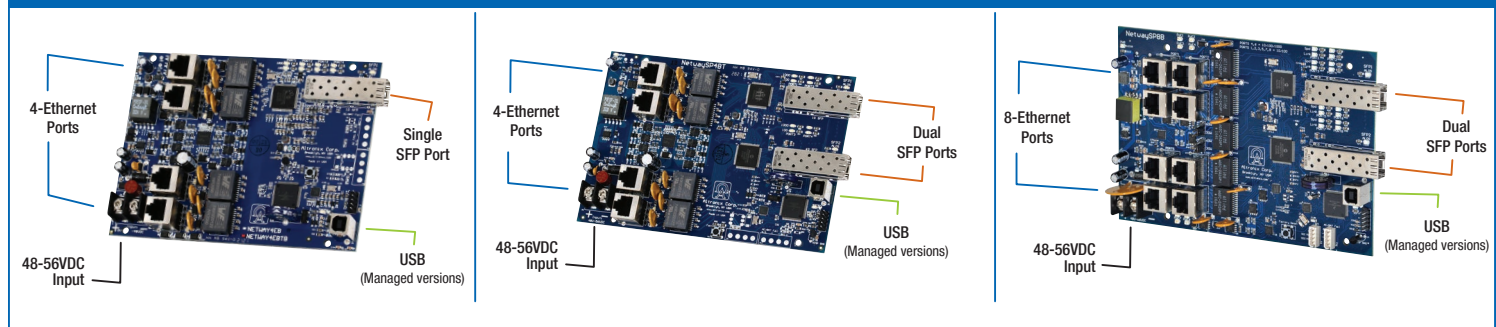
Hardened PoE Switches, Single SFP (Board only)

Model	SFP Port(s)	10/100/1000 Ethernet ports	PoE ports	Layer 2 Managed with Embedded LINQ™	Input: 48-56VDC
NetWay4EB	1	4	4-Ports rated up to 30W (120W total power)	✓	✓
NetWay4EBTB			4-Ports rated up to 90W (240W total power)		
NetWay4E1B			4-Ports rated up to 30W (120W total power)	—	
NetWay4E1BTB			4-Ports rated up to 90W (240W total power)		

4-Port Single SFP Hardened PoE Switch

4-Port Dual SFP Hardened PoE Switch

8-Port Dual SFP Hardened PoE Switch

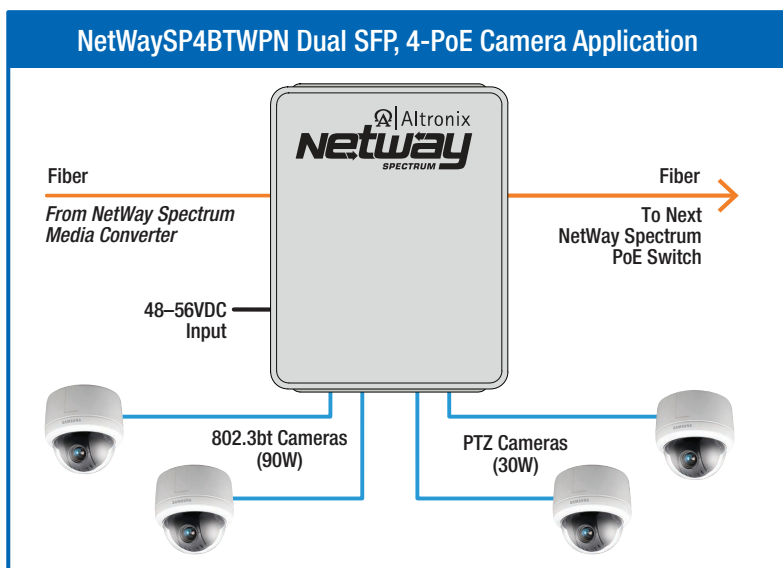


Hardened PoE Switches, Dual SFP (Board only)

Model	SFP port(s)	10/100 Ethernet ports	10/100/1000 Ethernet ports	PoE ports	Layer 2 Managed with Embedded LINQ™	Input: 48-56VDC
NetWaySP41B	2	—	4	4-Ports rated up to 30W (120W total power)	—	✓
NetWaySP41BTB				4-Ports rated up to 90W (240W total power)		
NetWaySP4B		—	4	4-Ports rated up to 30W (120W total power)	✓	
NetWaySP4BTB				4-Ports rated up to 90W (240W total power)		
NetWaySP8B		2	6	8-Ports rated up to 30W or 2-Ports rated up to 60W (240W total power)		
NetWaySP8BTB		4	4	8-Ports rated up to 90W (360W total power)		

Hardened PoE Switches Mounted in Outdoor Enclosure (external power required)

Model	Configuration	SFP port(s)	10/100 Ethernet ports	10/100/1000 Ethernet ports	PoE ports	Layer 2 Managed with Embedded LINQ™	Input: 48-56VDC
NetWay4E1WPN	NEMA4/4X Rated Outdoor Enclosure	1	——	4	4-Ports rated up to 30W (120W total power)	——	✓
NetWay4E1BTWPN		1	——	4	4-Ports rated up to 90W (240W total power)		
NetWaySP41WPN		2	——	4	4-Ports rated up to 30W (120W total power)		
NetWaySP41BTWPN		2	——	4	4-Ports rated up to 90W (240W total power)		
NetWay4EWPN		1	——	4	4-Ports rated up to 30W (120W total power)	✓	
NetWay4EBTWPN		1	——	4	4-Ports rated up to 90W (240W total power)		
NetWaySP4WPN		2	——	4	4-Ports rated up to 30W (120W total power)		
NetWaySP4BTWPN		2	——	4	4-Ports rated up to 90W (240W total power)		
NetWaySP8WPN		2	2	6	8-Ports rated up to 30W or 2-Ports rated up to 60W (120W total power)		
NetWaySP8BTWPN		2	4	4	8-Ports rated up to 30W (360W total power)		



Hardened PoE Switches (Single SFP) with Power Supply/Chargers in Enclosure

Model	Configuration	SFP port(s)	10/100/1000 Ethernet ports	PoE ports	Layer 2 Managed with Embedded LINQ™	Input: 115/230VAC	Built-in Battery Charger	Enclosure Accommodates Batteries
NetWay4E1WP	Outdoor Enclosure	1	4	4-Ports rated up to 30W (POE201 - 120W total power)	—	✓	SLA or Gel	—
NetWay4E1WPX	Outdoor Enclosure w/Battery Shelf							✓
NetWay4E1X	Indoor Enclosure							—
NetWay4E1BTWP	Outdoor Enclosure			4-Ports rated up to 90W (POE240 - 240W total power)			LiFePO4, SLA, or Gel	—
NetWay4E1BTWPX	Outdoor Enclosure w/Battery Shelf							✓
NetWay4E1BTX	Indoor Enclosure							—
NetWay4E1BTWP3	Outdoor Enclosure			4-Ports rated up to 90W (POE360 - 360W total power)			LiFePO4, SLA, or Gel	—
NetWay4E1BTWPX3	Outdoor Enclosure w/Battery Shelf							✓
NetWay4E1BTX3	Indoor Enclosure							—
NetWay4ELWPX	Outdoor Enclosure w/Battery Shelf			4-Ports rated up to 30W (POE60 - 75W total power)	✓	LiFePO4		
NetWay4EWP	Outdoor Enclosure			4-Ports rated up to 30W (POE201 - 120W total power)		SLA or Gel	—	
NetWay4EWPX	Outdoor Enclosure w/Battery Shelf						✓	
NetWay4EX	Indoor Enclosure						—	
NetWay4EBTWP	Outdoor Enclosure			4-Ports rated up to 90W (POE240 - 240W total power)		LiFePO4, SLA, or Gel	—	
NetWay4EBTWPX	Outdoor Enclosure w/Battery Shelf						✓	
NetWay4EBTX	Indoor Enclosure						—	
NetWay4EBTWP3	Outdoor Enclosure			4-Ports rated up to 90W (POE360 - 360W total power)		LiFePO4, SLA, or Gel	—	
NetWay4EBTWPX3	Outdoor Enclosure w/Battery Shelf						✓	
NetWay4EBTX3	Indoor Enclosure						—	

Hardened PoE Switches (Dual SFP) with Power Supply/Chargers in Enclosure

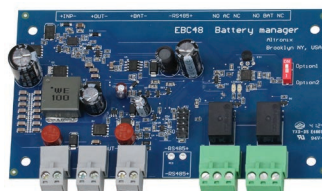
Model	Configuration	SFP port(s)	10/100/1000 Ethernet ports	PoE ports	Layer 2 Managed with Embedded LINQ™	Input: 115/230VAC	Built-in Battery Charger	Enclosure Accommodates Batteries
NetWaySP41WP	Outdoor Enclosure	2	4	4-Ports rated up to 30W	—	✓	SLA or Gel	—
NetWaySP41WPX	Outdoor Enclosure w/Battery Shelf			(POE201 - 120W total power)				✓
NetWaySP41X	Indoor Enclosure							—
NetWaySP41BTWP	Outdoor Enclosure			4-Ports rated up to 90W (802.3bt)			LiFePO4, SLA, or Gel	—
NetWaySP41BTWPX	Outdoor Enclosure w/Battery Shelf			(POE240 - 240W total power)				✓
NetWaySP41BTX	Indoor Enclosure							—
NetWaySP41BTWP3	Outdoor Enclosure			4-Ports rated up to 90W (802.3bt)			SLA or Gel	—
NetWaySP41BTWPX3	Outdoor Enclosure w/Battery Shelf			(POE360 - 360W total power)				✓
NetWaySP41BTX3	Indoor Enclosure							—
NetWaySP4WP	Outdoor Enclosure			4-Ports rated up to 30W	✓		SLA or Gel	—
NetWaySP4WPX	Outdoor Enclosure w/Battery Shelf			(POE201 - 120W total power)				✓
NetWaySP4X	Indoor Enclosure							—
NetWaySP4LWPX	Outdoor Enclosure w/Battery Shelf			4-Ports rated up to 30W (POE60 - 75W total power)			LiFePO4	✓
NetWaySP4BTWP	Outdoor Enclosure			4-Ports rated up to 90W (802.3bt)			LiFePO4, SLA, or Gel	—
NetWaySP4BTWPX	Outdoor Enclosure w/Battery Shelf			(POE240 - 240W total power)				✓
NetWaySP4BTX	Indoor Enclosure							—
NetWaySP4BTWP3	Outdoor Enclosure			4-Ports rated up to 90W (802.3bt)			SLA or Gel	—
NetWaySP4BTWPX3	Outdoor Enclosure w/Battery Shelf			(POE360 - 360W total power)				✓
NetWaySP4BTX3	Indoor Enclosure							—
NetWaySP4TCW53	Large Outdoor Enclosure (WP5) w/Battery Shelf			4-Ports rated up to 90W (802.3bt) (POE360 - 360W total power)				Includes rapid battery charger (EBC48) SLA or Gel
NetWaySP4TCW57	Large Outdoor Enclosure (WP5) w/Battery Shelf			4-Ports rated up to 90W (802.3bt) (POE367 - 360W total power)		277VAC Input	Includes rapid battery charger (EBC48) SLA or Gel	✓

Hardened PoE Switches (Dual SFP) with Power Supply/Chargers in Enclosure

Model	Configuration	SFP port(s)	10/100 Ethernet ports	10/100/1000 Ethernet ports	PoE ports	Layer 2 Managed with Embedded LINQ™	Input: 115/230VAC	Built-in Battery Charger	Enclosure Accommodates Batteries
NetWaySP8WP	Outdoor Enclosure	2	2	6	8-Ports rated up to 30W or 2-Ports rated up to 60W (POE201 - 120W total power)	✓	✓	SLA or Gel	—
NetWaySP8WPX	Outdoor Enclosure w/Battery Shelf								✓
NetWaySP8X	Indoor Enclosure								—
NetWaySP8LWPX	Outdoor Enclosure w/Battery Shelf							LiFePO4	✓
NetWaySP8WP2	Outdoor Enclosure							LiFePO4, SLA, or Gel	—
NetWaySP8WPX2	Outdoor Enclosure w/Battery Shelf								✓
NetWaySP8X2	Indoor Enclosure								—
NetWaySP8WP3	Outdoor Enclosure							SLA or Gel	—
NetWaySP8WPX3	Outdoor Enclosure w/Battery Shelf								✓
NetWaySP8X3	Indoor Enclosure								—
NetWaySP8BTWPX	Outdoor Enclosure w/Battery Shelf		4	4	8-Ports rated up to 90W (POE360 - 360W total power)			SLA or Gel	✓
NetWaySP8C3W5	Large Outdoor Enclosure (WP5) w/Battery Shelf		2	6	8-Ports rated up to 60W (POE360 - 360W total power)			Includes rapid battery charger (EBC48) SLA or Gel	✓
NetWaySP8C7W5	Large Outdoor Enclosure (WP5) w/Battery Shelf				8-Ports rated up to 60W (POE367 - 360W total power)		277VAC Input	Includes rapid battery charger (EBC48) SLA or Gel	✓

EBC48 - Rapid Battery Charger

Charges 32AH batteries in under 8 hrs to keep devices operating when power is lost/intermittent at the pole. (Mounted under PoE switch)



Hardened PoE Switches (Single/Dual SFP) with Power Supply/Chargers on Backplane

Model	Configuration	SFP port(s)	10/100 Ethernet ports	10/100/1000 Ethernet ports	PoE ports	Layer 2 Managed with Embedded LINQ™	Input: 115/230VAC	Built-in Battery Charger
NetWay4E1PL	Switch & Power Supply/Charger Mounted on Backplane (No enclosure)	1	—	4	4-Ports rated up to 30W (POE201 - 120W total power)	—	✓	SLA or Gel
NetWay4E1BTPL					4-Ports rated up to 90W (POE240 - 240W total power)	—		LiFePO4, SLA, or Gel
NetWay4E1BTPL3					4-Ports rated up to 90W (POE360 - 360W total power)	—		SLA or Gel
NetWay4EPL					4-Ports rated up to 30W (POE201 - 120W total power)	✓		SLA or Gel
NetWay4EBTPL					4-Ports rated up to 90W (POE240 - 240W total power)	✓		LiFePO4, SLA, or Gel
NetWay4EBTPL3					4-Ports rated up to 90W (POE360 - 360W total power)	✓		SLA or Gel
NetWaySP41PL		2	—	4	4-Ports rated up to 30W (POE201 - 120W total power)	—		SLA or Gel
NetWaySP41BTPL				4	4-Ports rated up to 90W (POE240 - 240W total power)	—		LiFePO4, SLA, or Gel
NetWaySP41BTPL3				4	4-Ports rated up to 90W (POE360 - 360W total power)	—		SLA or Gel
NetWaySP4PL				4	4-Ports rated up to 30W (POE201 - 120W total power)	✓		SLA or Gel
NetWaySP4BTPL				4	4-Ports rated up to 90W (POE240 - 240W total power)	✓		LiFePO4, SLA, or Gel
NetWaySP4BTPL3				4	4-Ports rated up to 90W (POE360 - 360W total power)	✓		SLA or Gel
NetWaySP8PL			2	6	8-Ports rated up to 30W (POE201 - 120W total power)	✓		SLA or Gel
NetWaySP8PL2			2	6	8-Ports rated up to 60W (POE240 - 240W total power)	✓		LiFePO4, SLA, or Gel
NetWaySP8PL3			2	6	8-Ports rated up to 60W (POE360 - 360W total power)	✓		SLA or Gel
NetWaySP8BTPL			4	4	8-Ports rated up to 90W (POE360 - 360W total power)	✓		SLA or Gel

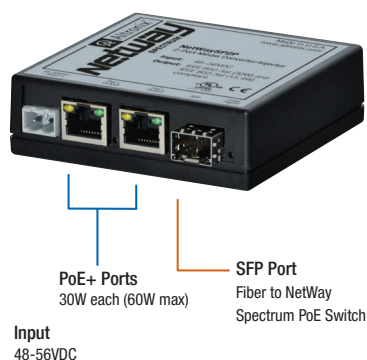
Media Converters

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) / (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 (DIN Rail Mountable)	1	1	90W max	—	—	—	48VDC to 56VDC	—
NetWaySP1BT2		2	1	90W max					
NetWaySP1P		1	1	30W max					
NetWaySP2P		1	2	30W max per port					
NetWaySP2BT		1	2	90W max per port					
NetWaySP1H	Modular Metal Case (DIN Rail Mountable)	1	1	90W max	—	✓	—	115/230VAC	—
NetWaySP1A	Modular Case (DIN Rail Mountable)	1	1	N/A	—	—	—	PoE (Class 1)	—
NetWaySP8A	1U Rack Mount	8	8					115/230VAC	
NetWaySP16A	1U Rack Mount	16	16					115/230VAC	

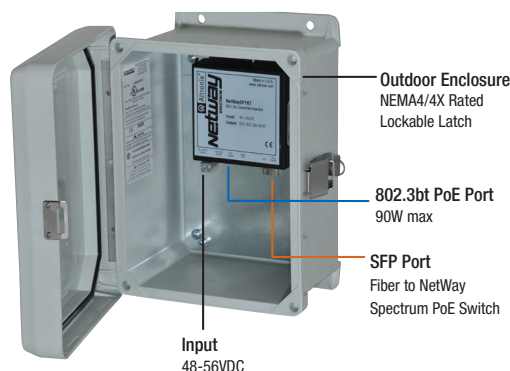
Media Converters in Outdoor Enclosure

Model	Configuration	SFP port(s)	10/100/1000 Ethernet ports	PoE ports	Input: 48-56VDC
NetWaySP1BTWPN	Outdoor NEMA4/4X Enclosure	1	1	Single Port (802.3bt) rated up to 90W	✓
NetWaySP1BT2WPN		2	1	Single Port (802.3bt) rated up to 90W	
NetWaySP2BTWPN		1	2	2-Ports (802.3bt) rated up to 90W each	
NetWaySP2PWPN		1	2	2-Ports rated up to 30W	

NetWaySP2P - 3-Port Media Converter/Switch



NetWaySP1BTWPN - Outdoor Single Port Media Converter

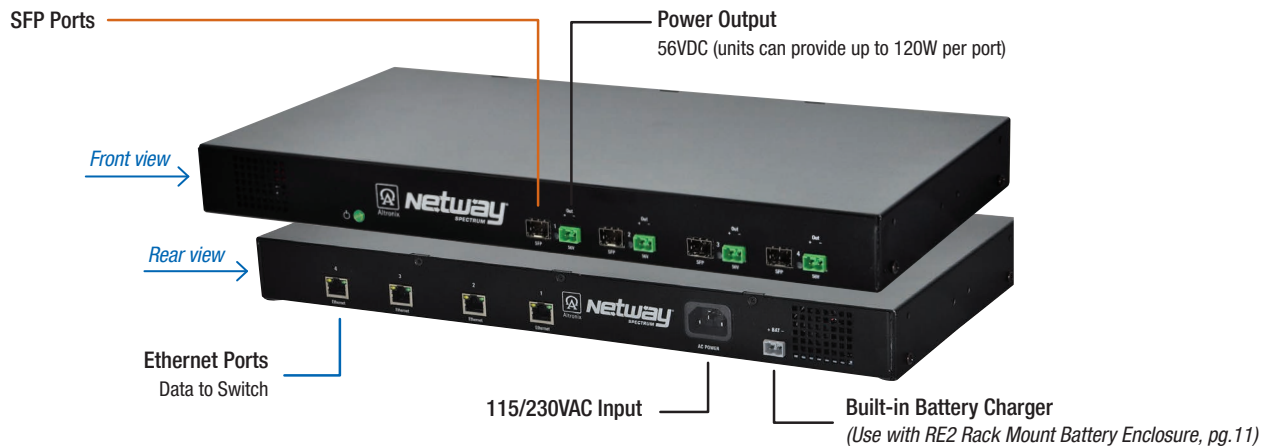


Media Converters with Power Supply/Chargers in Outdoor Enclosure

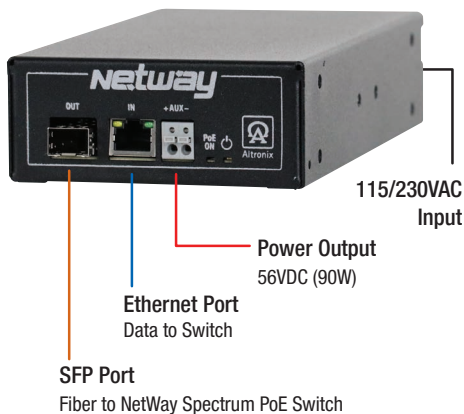
Model	Configuration	SFP port(s)	10/100/1000 Ethernet ports	PoE ports	Input: 115/230VAC	Built-in Battery Charger	Enclosure Accommodates Batteries		
NetWaySP1BTWP	Outdoor Enclosure	1	1	Single Port (802.3bt) rated up to 90W	✓	✓	—		
NetWaySP1BTWPX	Outdoor Enclosure w/Battery Shelf						✓		
NetWaySP2PWP	Outdoor Enclosure		2	2-Ports rated up to 30W			—		
NetWaySP2PWPX	Outdoor Enclosure w/Battery Shelf						✓		

Ethernet to Fiber Media Converters

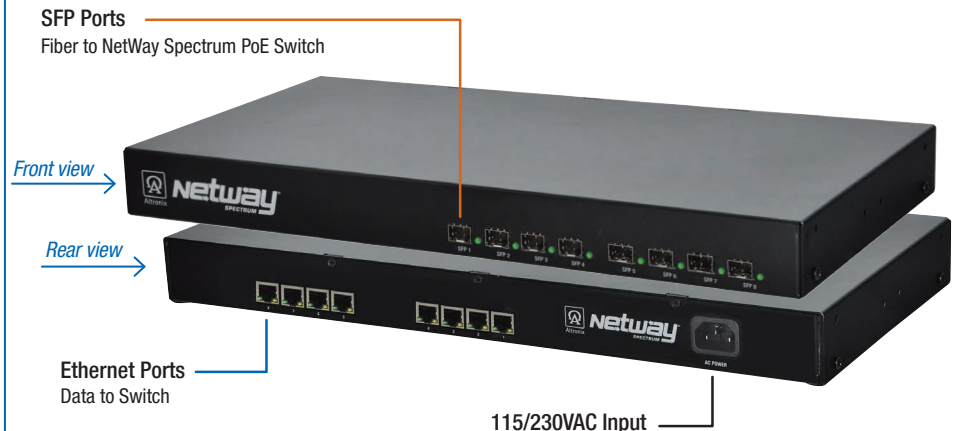
NetWaySP4P / NetWaySP4P2 / NetWaySP4PX - 4-Port Media Converters with Integral Power/Charger



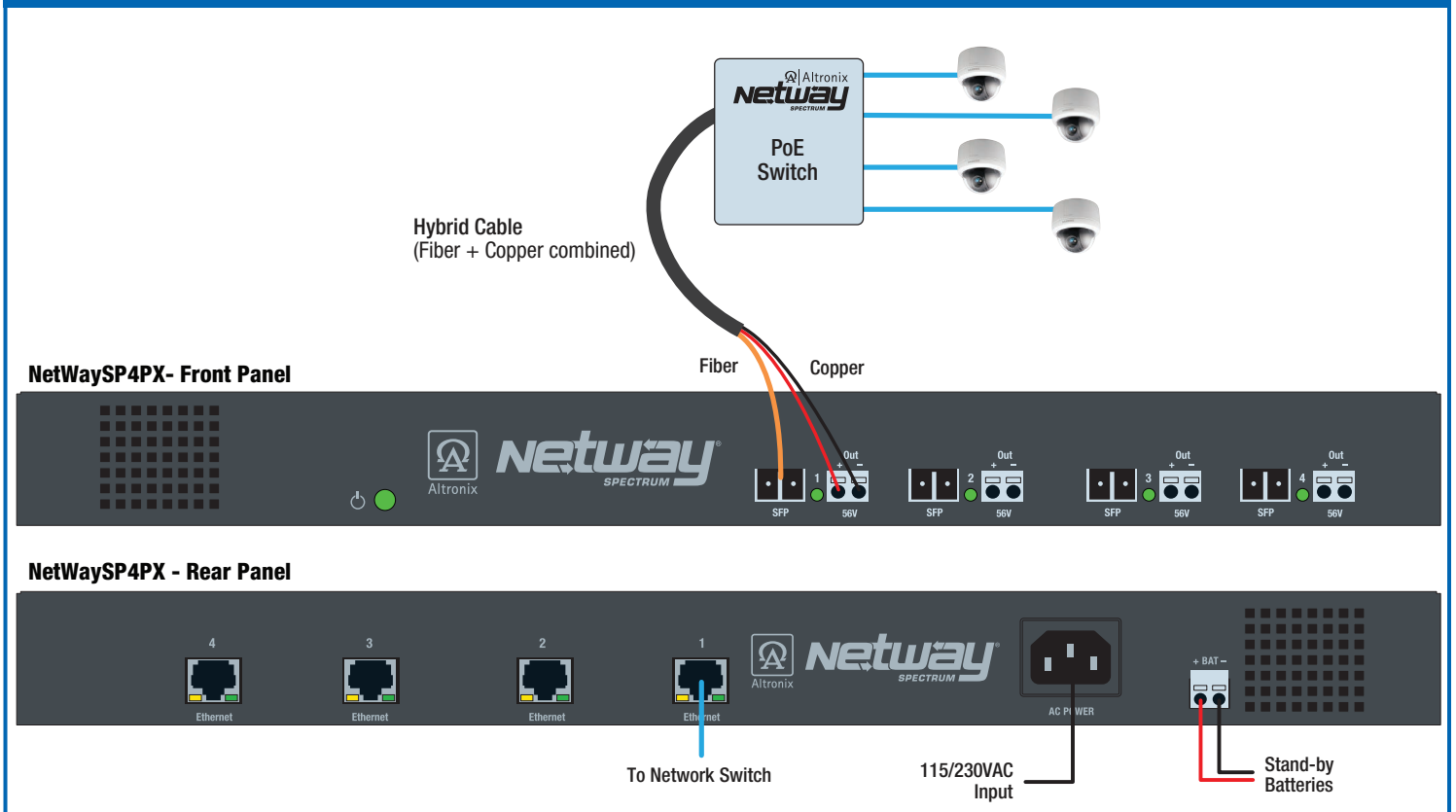
NetWaySP1H - Single Port Powered Media Converter



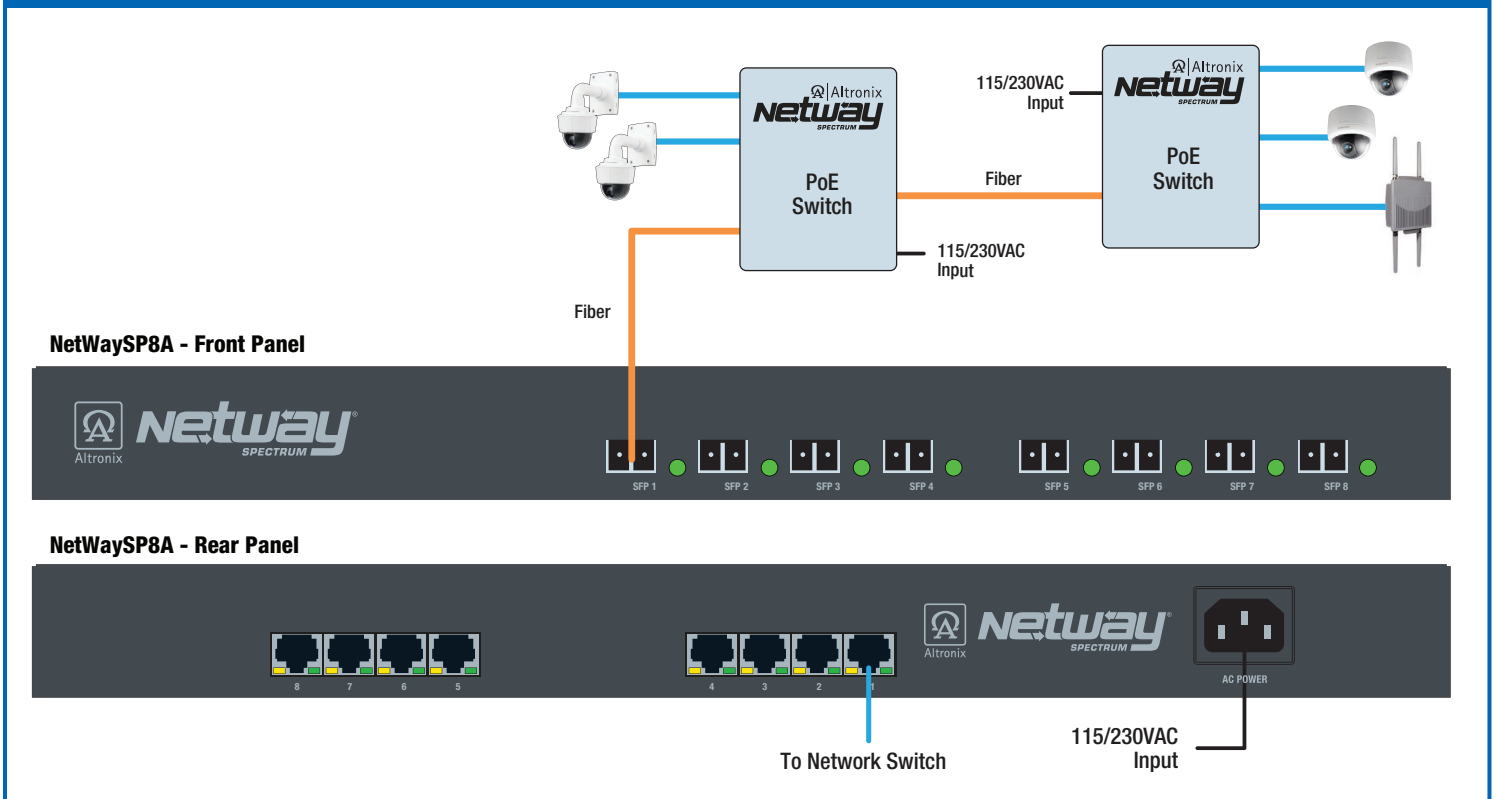
NetWaySP8A - 8-Port Media Converter (16-Port version available)



NetWaySP4PX Application Generating Power from the Head-End to Remote NetWay Spectrum PoE Switch













NetWaySP8A Application Utilizing Local Power at Remote NetWay Spectrum PoE Switches



Power Sources for NetWay Spectrum

Model	Description	Input	Total Output Power	Built-in Battery Charger	Dimensions (LxWxH)
P0E60	Single Output Power Supply/Charger	115/ 230VAC	56VDC / 75W	Charges LiFePO4 Batteries	4" x 7.19" x 2" (board only)
P0E201			56VDC / 120W	Charges SLA or Gel	4" x 7" x 1.375" (board only)
P0E240			56VDC / 240W	Charges LiFePO4, SLA, or Gel	4.5" x 7.75" x 1.375" (board only)
P0E360			54VDC / 360W	Charges SLA or Gel	4.5" x 7.75" x 1.375" (board only)
P0E367		230VAC-277VAC	54VDC / 360W	Charges SLA or Gel	4.5" x 7.75" x 1.375" (board only)

Accessories for NetWay Spectrum

Model	Description
EBC48	External Rapid Battery Charger (48VDC) charges 32H in under 8 hours for constant power at the pole. Used with P0E240/P0E360/P0E367 power supplies. 
LOCK1WP	Pad lock to secure Altronix outdoor enclosures with flanges. 
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. 
P1SM10	Single-mode SFP module (up to 20km). P1SM102PK: 2 pack of P1SM10 
P1MM	Multi-mode SFP module (up to 550m). P1MM2PK: 2 pack of P1MM 
P1MM2PK	Single strand SFP modules (up to 2km). 2 pack 
P1GCE	Copper SFP module (up to 100m). 
VENT2	Pair of air vents to ensure efficient air circulation and prevent water condensation. Includes template and mounting screws. 



Hardened PoE Switches Mounted in Outdoor Enclosure (external power required)

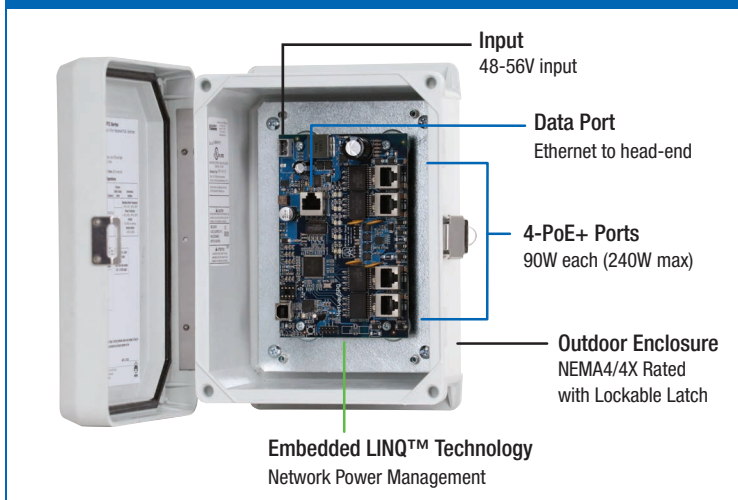
Model	Configuration	Ethernet Data port	PoE ports (10/100/1000)	Embedded LINQ™ Power Management	Input
NetWay5BTWPN	NEMA4/4X Rated Outdoor Enclosure	1	4-Ports rated up to 90W (240W total power)	—	48-56VDC
NetWay5PWPN			4-Ports rated up to 30W (120W total power)		12/24VDC
NetWay5BTQWPN		1	4-Ports rated up to 90W (240W total power)	✓	48-56VDC
NetWay5PQWPN			4-Ports rated up to 30W (120W total power)		12/24VDC



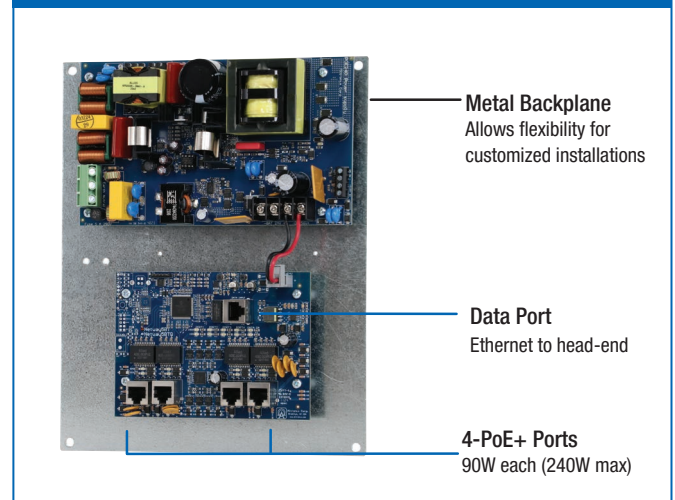
Hardened PoE Switches with Power Supply/Chargers on Backplane

Model	Configuration	Ethernet Data port	PoE ports (10/100/1000)	Embedded LINQ™ Power Management	Input
NetWay5BTPL	NEMA4/4X Rated Outdoor Enclosure	1	4-Ports rated up to 90W (240W total power)	—	115/230VAC Input
NetWay5BTQPL				✓	

NetWay5PQWP - Outdoor Hardened PoE+ Switch with Network Management



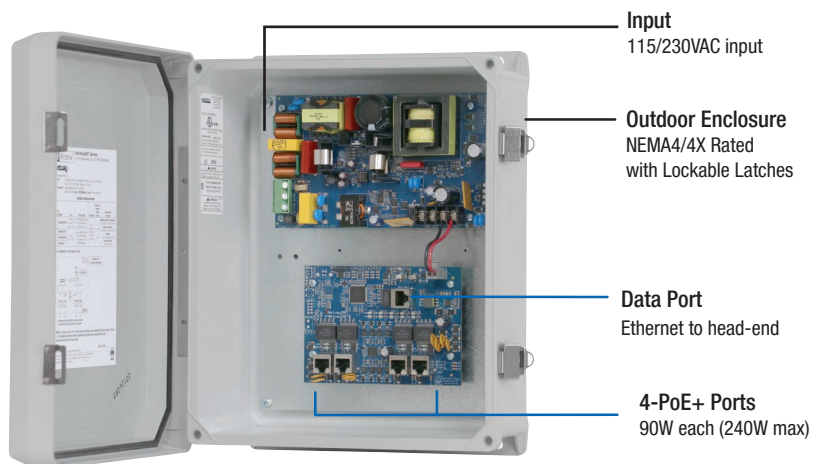
NetWay5BTPL - PoE+ Switch with Integral Power on Backplane



Hardened PoE Switches with Power Supply/Chargers in Enclosure

Model	Configuration	Ethernet Data port	PoE ports (10/100/1000)	Embedded LINQ™ Power Management	Input 115/230VAC	Built-in Battery Charger	Enclosure Accommodates Batteries			
NetWay5BTWP	NEMA4/4X Rated Outdoor Enclosure	1	4-Ports rated up to 90W (240W total power)	—	✓	Charges LiFePO4, SLA, or Gell	—			
NetWay5BTWPX	Outdoor Enclosure w/Battery Shelf						✓			
NetWay5BTX	Indoor Enclosure						—			
NetWay5PWP	NEMA4/4X Rated Outdoor Enclosure		4-Ports rated up to 30W (120W total power)				—			
NetWay5PWPX	Outdoor Enclosure w/Battery Shelf						✓			
NetWay5PX	Indoor Enclosure						—			
NetWay5BTQWP	NEMA4/4X Rated Outdoor Enclosure	1	4-Ports rated up to 90W (240W total power)	✓	✓	Charges LiFePO4, SLA, or Gell	—			
NetWay5BTQWPX	Outdoor Enclosure w/Battery Shelf						✓			
NetWay5BTQX	Indoor Enclosure						—			
NetWay5PQWP	NEMA4/4X Rated Outdoor Enclosure		4-Ports rated up to 30W (120W total power)				—			
NetWay5PQWPX	Outdoor Enclosure w/Battery Shelf						✓			
NetWay5PQX	Indoor Enclosure						—			

NetWay5BTWP - Outdoor Hardened PoE+ Switch with Integral Power



PROTECTING & SECURING CRITICAL INFRASTRUCTURE
AROUND THE WORLD.



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