

1,200m(3,937ft) Long Range EPoT Series

EPoT RX Switch

EPoT TX/RX Adapter

EPoT Camera Housing



EPoT series

EPoT Extender over UTP/STP



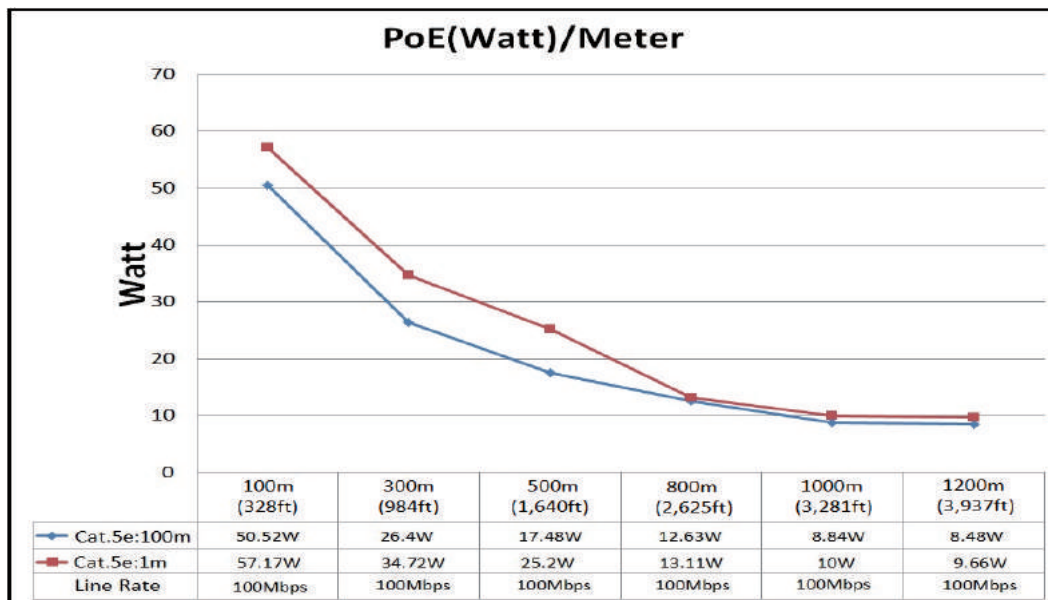
AETEK **EPoT**(Ethernet & Power over UTP/STP cable) Ethernet extender is specially designed for long-range PoE solution reaching up to 100Mbps & 9.7W of PoE budget @1,200m(3,937ft) to the end of PoE IP device(PD). EPoT must be used in pairs that EPoT RX unit must be installed at local site and EPoT TX unit must be installed at one end of PoE IP device (PD). There are three models of EPoT RX can be chosen to install at local site. One is TE10-110-RX EPoT RX adapter is powered by 65W power adapter, and the other one is TE11-110-RX EPoT PoE RX adapter is powered by the 95W/60W/30W per port of PoE PSE like PoE switch & PoE Injector. Additional all-in-one alternative is XT10-041-250 EPoT RX Switch integrating four EPoT ports & one Gigabit LAN port with 240W PoE budget.

Besides indoor application, outdoor EPoT TX adapter is protected by IP67 weatherproof, vandal-resistant IK10 casing, and PoE surge protection allowing it to operate between -30°C~60°C(-22°F~140°F) in harsh environments. In addition to peer-to-peer connectivity, EPoT supports daisy-chain topology & ring topology with failover of IP data & PoE simultaneously.

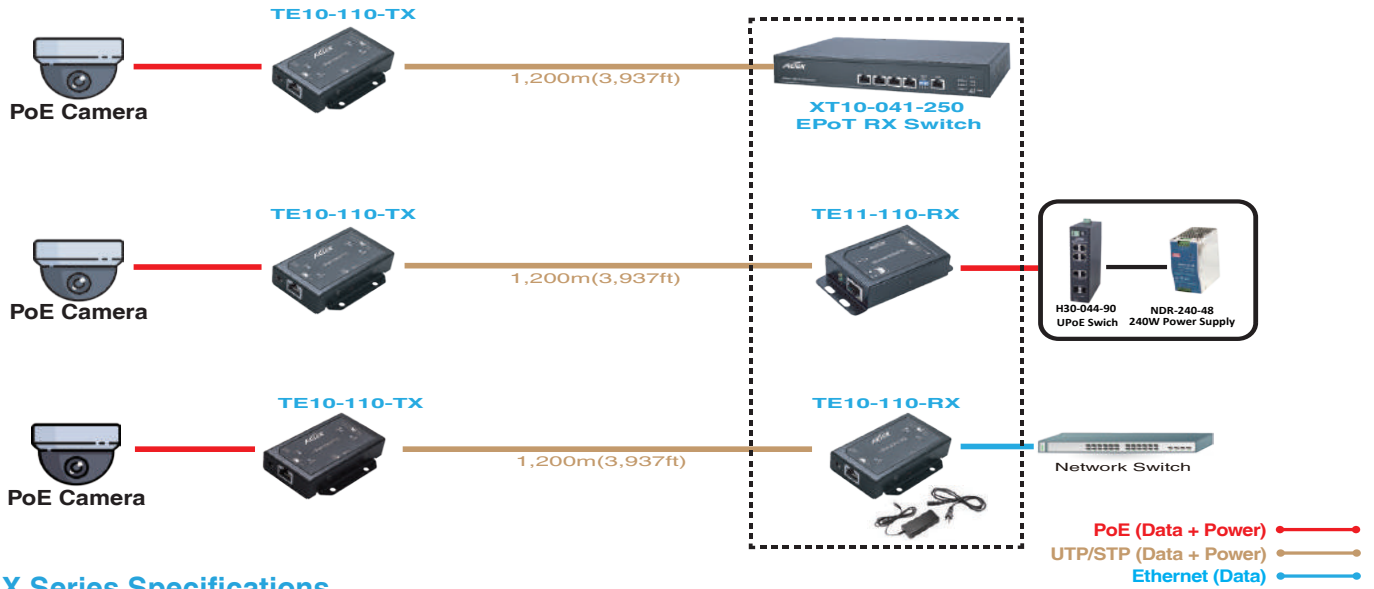
Features

- Delivers IP data & PoE over standard UTP/STP cat.x cable
- 100Mbps Ethernet with PoE up to 1,200m(3,937 ft)
- 100Mbps Ethernet without PoE up to 2,400m(7,874 ft)
- Supports peer-to-peer, daisy-chain, and failover Ring topologies
- Long-range IP data & PoE over 4-pair/2-pair/1-pair UTP or STP cables
- Eliminates the need for intermediate Ethernet switches & power supplies for long-range deployment
- Plug-and-Play connection
- IK10/IP67/6KV surge protection (outdoor TX models only)

Power / Distance Table



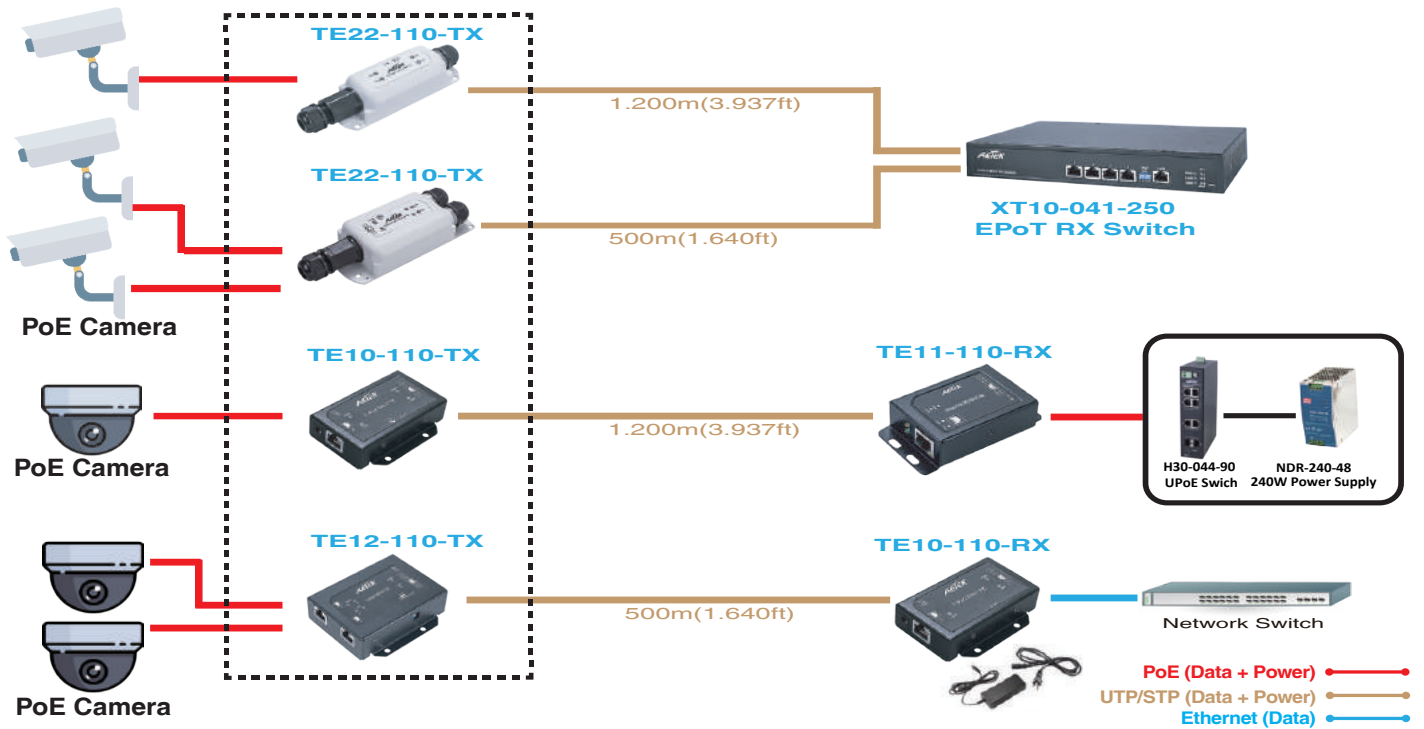
EPoT RX Series



EPoT RX Series Specifications

	TE10-110-RX	TE11-110-RX	XT10-041-250
Interface			
EPoT RJ45	1	1	4
10/100Mpps Ethernet RJ45	1	1	-
10/100/1000Mpps Ethernet RJ45	-	-	1
Transmission mode	RX mode	RX mode	RX mode
Cable Type	UTP/STP cable	UTP/STP cable	UTP/STP cable
Power Specifications			
Power Input	100-240VAC Power Adapter: 65W@56VDC	30W PoE Switch I36-100 : 60W UPoE Injector H30-044-90 : 60W/95W UPoE Switch	Internal 250W 100-240VAC 280VAC 4hr 300VAC 1min.
Back-up Power Input Voltage	-	-	56VDC
Unit Power Consumption	3 watts	3 watts	10 watts
PoE PD	-	v	-
PoE Pass Through	v	v	v
Surge Protection /each EPoT Port	-	-	Built-in 6KV
Mechanical Specifications			
Dimensions (WxHxD)	85.4 x 47.1 x 23 mm (3.36x1.85x0.91")	85.4 x 47.1 x 23 mm (3.36x1.85x0.91")	276.6 x 178 x 44 mm (10.89x7x1.73")
Weight	0.2 kg (0.44 lb)	0.26 kg (0.57 lb)	1 kg (2.20 lb)
Connectors	EPoT RJ45x1, LAN RJ45 x1, DC Jack x1	EPoT RJ45x1, LAN RJ45 x1	EPoT RJ45x4, LAN RJ45x1, 100-240VAC power input, 56VDC input
LED	LAN, PWR, LINK	LAN, PWR, LINK, PoE	LAN, PWR, LINK, EPoT
Environmental Specifications			
Operating Temperature	-20°C ~ 60°C (-28°F ~ 140°F)	-20°C ~ 60°C (-28°F ~ 140°F)	0°C ~ 50°C (32°F ~ 122°F)
Storage Temperature	-20°C ~ 85°C (-28°F ~ 185°F)	-20°C ~ 85°C (-28°F ~ 185°F)	-20°C ~ 85°C (-28°F ~ 185°F)
Operating Humidity	5% ~ 95% non-condensing	5% ~ 95% non-condensing	5% ~ 95% non-condensing
Certifications			
EMC	CE, FCC, VCCI, C-Tick	CE, FCC, VCCI, C-Tick	CE, FCC, VCCI, C-Tick
Safety	EN60950-1	EN60950-1	EN60950-1

EPoT TX Series



EPoT TX Series Specifications

	TE10-110-TX	TE12-120-TX	TE22-110-TX	XTE22-120-TX
Interface/Distance				
EPoT RJ45	1	1	1	1
10/100Mbps Ethernet RJ45	1	2	1	2
Transmission mode	TX mode	TX mode	TX mode	TX mode
Cable Type	UTP/STP cable	UTP/STP cable	UTP/STP cable	UTP/STP cable
Power Specifications				
Surge Protection	-	-	Built-in 6KV	Built-in 6KV
PoE Pass Through	v	v	v	v
Unit Power Consumption	3 watts	4 watts	3 watts	4 watts
Power supply	Optional: 100-240VAC Power Adapter: 65W@56VDC	Optional: 100-240VAC Power Adapter: 65W@56VDC	-	-
Mechanical Specifications				
Dimensions (WxHxD)	85.4 x 47.1 x 23 mm (3.36x1.85x0.91")	103 x 86.6 x 28.9 mm (4.06x3.41x1.14")	157 x 55.8 x 39.75 mm (6.18x2.2x1.56")	167.5 x 72.8 x 39.8 mm (6.59x2.87x1.57")
Weight	0.2 kg (0.44 lb)	0.26 kg (0.57 lb)	0.3 kg (0.66 lb)	0.36 kg (0.79 lb)
Connectors	EPoT RJ45 x1, LAN RJ45 x1, DC Jack x1	EPoT RJ45 x1, LAN RJ45 x2, DC Jack x1	EPoT RJ45 x1, LAN RJ45 x1	EPoT RJ45 x1, LAN RJ45 x2
Environmental Specifications				
Weather Rating	-	-	IP67	IP67
Vandal Proof	-	-	IK10	IK10
Operating Temperature	-20°C ~ 60°C (-28°F ~ 140°F)	-20°C ~ 60°C (-28°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)
Storage Temperature	-20°C ~ 85°C (-28°F ~ 185°F)	-20°C ~ 85°C (-28°F ~ 185°F)	-40°C ~ 85°C (-40°F ~ 185°F)	-40°C ~ 85°C (-40°F ~ 185°F)
Operating Humidity	10% ~ 95% non-condensing	10% ~ 95% non-condensing	10% ~ 95% non-condensing	10% ~ 95% non-condensing
Certifications				
EMC	CE, FCC, VCCI, C-Tick	CE, FCC, VCCI, C-Tick	CE, FCC, VCCI, C-Tick	CE, FCC, VCCI, C-Tick

EPoT Camera Housing Series

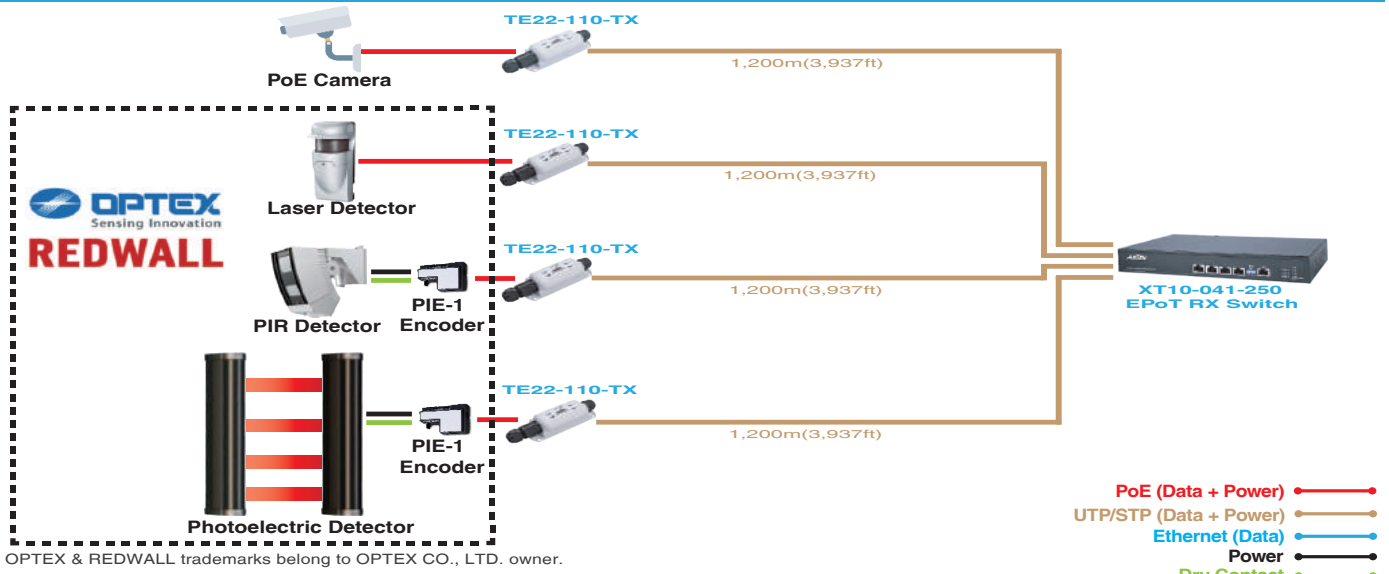


EPoT Camera Housing Specifications

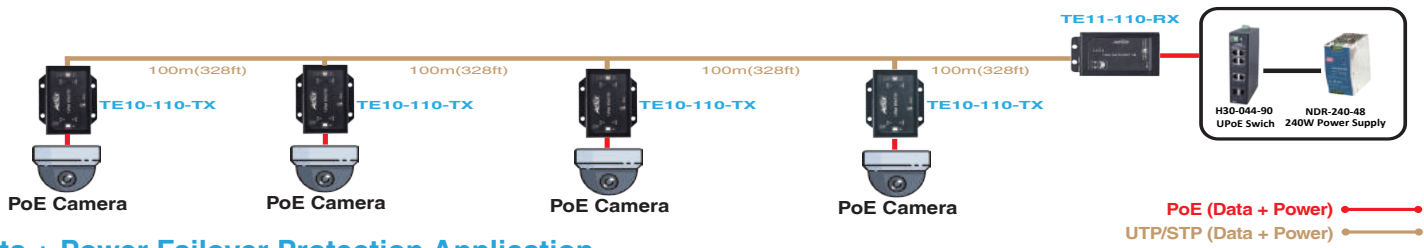
	A5000-T	A5020-T	A5100-T
Electrical Specifications			
Input Power	EPoT	EPoT	EPoT
Output Power Budget	20W @600m	25W @500m	20W @600m
12VDC Output Power Budget	12W	12W	12W
Camera Power Input	PoE	PoE	PoE
Surge Protection	EPoT Port : 6KV	EPoT Port : 6KV	EPoT Port : 6KV
IR LEDs Range	-	Up to 50m	-
Power Consumption	Window Heater: 10W Blower: 2W Camera: 6 ~ 8W	Window Heater: 10W Blower: 2W Camera: 6 ~ 8W IR LEDs: 6W	Blower: 2W Camera: 6 ~ 8W
Housing's Window			
Window	-	-	Germanium window
Usable diameter	-	-	58mm (2.28in)
Thick	-	-	2mm (0.08in)
External treatment	-	-	antiscratch (Hard Carbon Coating - DLC), antireflection
Internal treatment	-	-	antireflection
Spectral range	-	-	from 7.5μm up to 14μm
Medium transmittance (from 7.5μm up to 11.5μm)	-	-	90%
Medium transmittance (from 11.5μm up to 14μm)	-	-	77%
Environmental Specifications			
Operating Temperature*	-20°C ~ 65°C (-4°F ~ 149°F)	-20°C ~ 65°C (-4°F ~ 149°F)	-20°C ~ 65°C (-4°F ~ 149°F)
Heater ON / OFF	≤ 30°C (86°F) ON ≥ 35°C (95°F) OFF	≤ 30°C (86°F) ON ≥ 35°C (95°F) OFF	≤ 30°C (86°F) ON ≥ 35°C (95°F) OFF
Blower ON / OFF	≥ 40°C (104°F) ON ≤ 35°C (95°F) OFF	≥ 40°C (104°F) ON ≤ 35°C (95°F) OFF	≥ 40°C (104°F) ON ≤ 35°C (95°F) OFF
Weather Rating	IP68	IP66	IP68
Vandal Proof	IK10 Impact Rated on Cast Aluminum Housing	IK10 Impact Rated on Cast Aluminum Housing	IK10 Impact Rated on Cast Aluminum Housing
Mechanical Specifications			
Body Material	Cast Aluminum	Cast Aluminum	Cast Aluminum
Body Weight	2.2 kg (4.85 lb)	2.8 kg (6.18 lb)	2.2 kg (4.85 lb)
Cable Grants	M16 x 4	M16 x 4	M16 x 4

* Inside camera specification must be within housing's operating temperature.

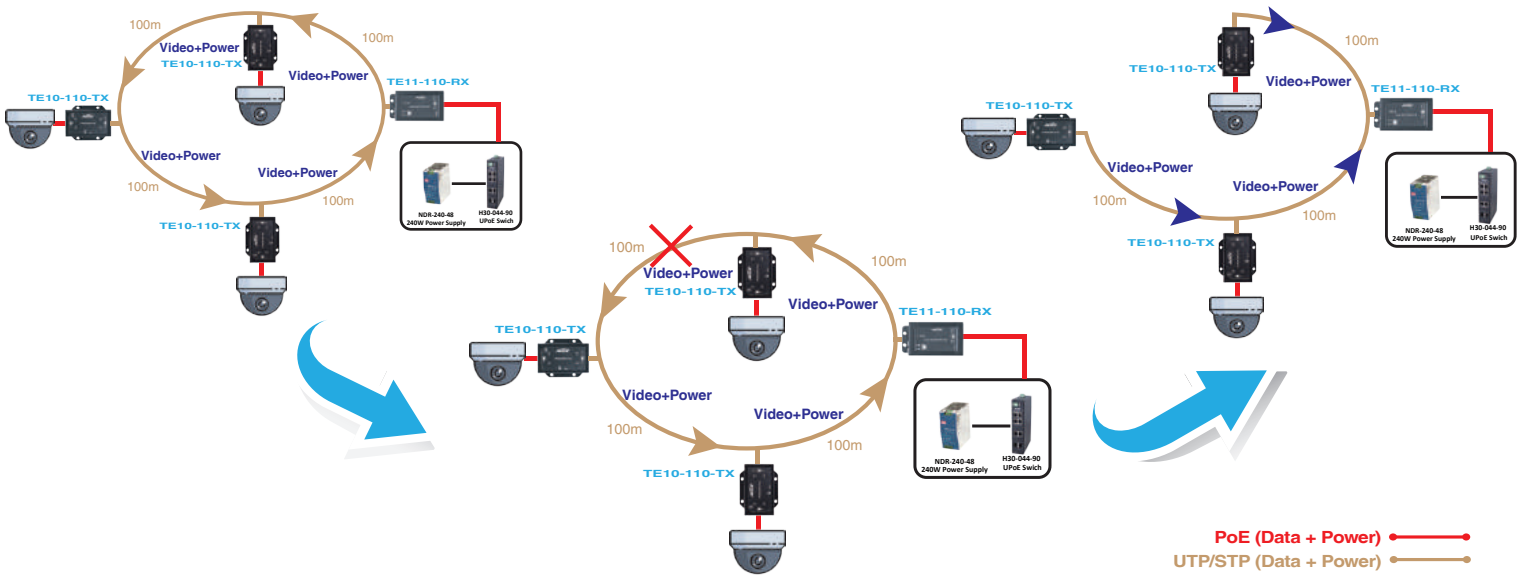
Peer-to-Peer Application



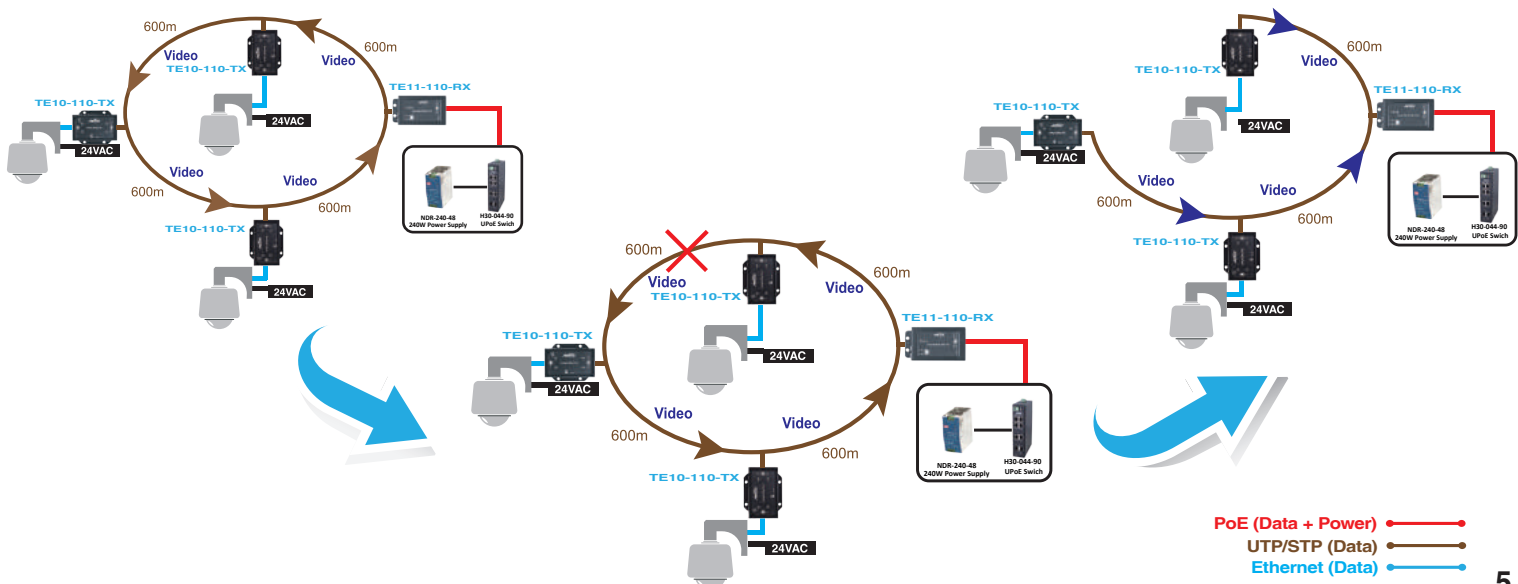
Daisy-Chain Application



Data + Power Failover Protection Application








Data Failover Protection Application




EPoT Kit			
	<p>TE10-110 kit A</p> <ul style="list-style-type: none"> • TE10-110-TX EPoT adapter x1 • TE10-110-RX EPoT adapter x1 • 65W@56VDC power adapter x1 		<p>TE11-110 kit A</p> <ul style="list-style-type: none"> • TE11-110-RX PoE EPoT adapter x1 • TE10-110-TX EPoT adapter x1





EPoT RX Adapter Series			
	<p>TE10-110-RX</p> <ul style="list-style-type: none"> • TE10-110 EPoT adapter(RX) • 65W@56VDC power adapter 		<p>TE11-110-RX</p> <ul style="list-style-type: none"> • TE11-110 PoE EPoT adapter(RX) • Supports 30W/60W/95W PoE Input

EPoT RX Switch	
	<p>XT10-041-250</p> <ul style="list-style-type: none"> • Four RJ-45 ports & one Gigabit LAN port EPoT Switch • Playing RX mode • PoE pass through UTP/STP cable to remote PoE IP camera • 6KV Surge Protection for EPoT RJ45 port • 250W Power Supply, 100~240VAC input • Optional Back-up 56VDC power input • 19" Rack mount bracket

EPoT TX Adapter Series			
	<p>TE10-110-TX</p> <ul style="list-style-type: none"> • 1-to-1 EPoT adapter(TX) 		<p>TE12-120-TX</p> <ul style="list-style-type: none"> • 1-to-2 EPoT adapter(TX) • Integrates 2-port PoE Switch
	<p>TE22-110-TX</p> <ul style="list-style-type: none"> • 1-to-1, Outdoor EPoT adapter(TX) • IP67, IK10 & 6KV Surge protection 		<p>TE22-120-TX</p> <ul style="list-style-type: none"> • 1-to-2, Outdoor EPoT adapter(TX) • Integrates 2-port PoE Switch • IP67, IK10 & 6KV Surge protection



EPoT Camera Housing Series			
	<p>A5000-T</p> <ul style="list-style-type: none"> • EPoT Camera Housing • IP68, IK10 & 6KV Surge protection 		<p>A5100-T</p> <ul style="list-style-type: none"> • EPoT Camera Housing • Germanium window • IP68, IK10 & 6KV Surge protection
	<p>A5020-T</p> <ul style="list-style-type: none"> • EPoT Camera Housing with IR illuminator(MAX: 50m) • IP66, IK10 & 6KV Surge protection 		

Related Product

Related Product			
	<p>CH-100</p> <ul style="list-style-type: none"> • 19", 1U 4-bay rack mount chassis • Works with TE10-110-RX & 65W power adapter 		<p>I36-100</p> <ul style="list-style-type: none"> • 60W UPoE Injector • works with TE11-110-RX
	<p>CH-110</p> <ul style="list-style-type: none"> • 19", 1U 8-bay rack mount chassis • Works with TE11-110-RX 		<p>H30-044-90</p> <ul style="list-style-type: none"> • 60W/95W UPoE Switch • works with TE11-110-RX




EPoT Camera Housing Brackets

Wall Mount	
 <p>BK-101 Wall Mount Bracket Safety Wire Concealing Cable</p>	 <p>BK-102 Wall Mount Bracket</p>

Ceiling Mount	
 <p>BK-200 J-type Ceiling Mount Bracket</p>	 <p>BK-201 Flexible J-type Ceiling Mount Bracket</p>

Standing Mount
 <p>BK-300 Standing Mount Bracket</p>

EPoT Camera Housing Adapters

Pole Mount	Corner Mount	
 <p>AT-100 Pole Mount Adapter</p>	 <p>AT-101 Pole Mount Adapter</p>	 <p>AT-200 Corner Mount Adapter</p>

EPoT Camera Housing Junction Box

Junction Box
 <p>JB-100 Junction Box</p>

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3F, No.192, Lien-Cheng Rd., Chung-Ho, New Taipei City, 235, Taiwan, R.O.C. T: +886-2-82452822 E: sales@aetektec.com W: www.aetektec.com