

# Data Centre & Communications Room Power-over-Ethernet Solutions



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# Data Centre & Communications Room

## PoE – TrueNet® Midspan Power-over-Ethernet Controller

The TrueNet® Midspan Power-over-Ethernet (PoE) controller from ADC KRONE, provides a flexible way to power IP telephony and other applications over a local area network. The IEEE 802.3af compliant power source ensures reliability of service for any number of Ethernet devices such as VoIP telephones, wireless access points and security cameras. The TrueNet Midspan PoE controller eliminates the need for installation of local power at the device, saving time and money.

ADC KRONE's patent-pending design also offers a modular SNMP slot and dual power supply slot that allow for easy future upgrades. For example, a non-SNMP enabled chassis can easily be upgraded by inserting the SNMP card at a later date, deferring up-front costs. Additionally, a single power supply chassis can be upgraded to dual redundancy at a future date should the circuits become critical. These upgrades can be performed without ever interrupting the data or power.



### Application and Benefits

- Utilises existing infrastructure
  - Same cables and RJ45 connectors
- Offers less expensive, faster, simpler way to set up remote network devices
  - Wi-Fi access points, IP security cameras and VoIP phones
- Provides easier remote access and management
  - Monitor the entire network and operation of individual devices
  - Remotely turn off or reboot network devices
- Ensures greater safety
  - 48V, 15.4W, 400mA
  - 1500Vrms port isolation

### Features

- Supports 10/100/1000 BASE-T
- Dual compatibility with IEEE 802.3af and earlier Cisco devices
- Detects device presence and transmits appropriate power, achieving dual compliance to IEEE 802.af and Cisco's legacy in-line powering standards
- Delivers up to 15.4 watts of power on all ports; redundant power available
- Modular SNMP and power supplies
- Up to five panels can be daisy-chained and controlled via one CPU card and a single IP address

### Ordering Information

Description – Gigabit Ethernet	Catalogue Number*
<b>Dual Compliance (802.3af and Legacy Cisco) 10/100/1000BASE-T</b>	
24/8-port midspan controller	PWR-XXACS-GE-E
24/8-port midspan controller, with N+1 redundant power	PWR-XXAC2S-GE-E
<b>Dual Compliance (802.3af and Legacy Cisco) 10/100BASE-T</b>	
24/16/8-port midspan controller	PWR-XXACS-E
24/16-port midspan controller, with N+1 redundant power	PWR-XXAC2S-E
<b>Accessories</b>	
SNMP module (Mounts in all chassis)	PWR-M
Redundant power supply (Mounts in all chassis)	PWR-PS
UK Power Cord	DGVI-100000CRD
Central Europe Power Cord	DGVI-200000CRD

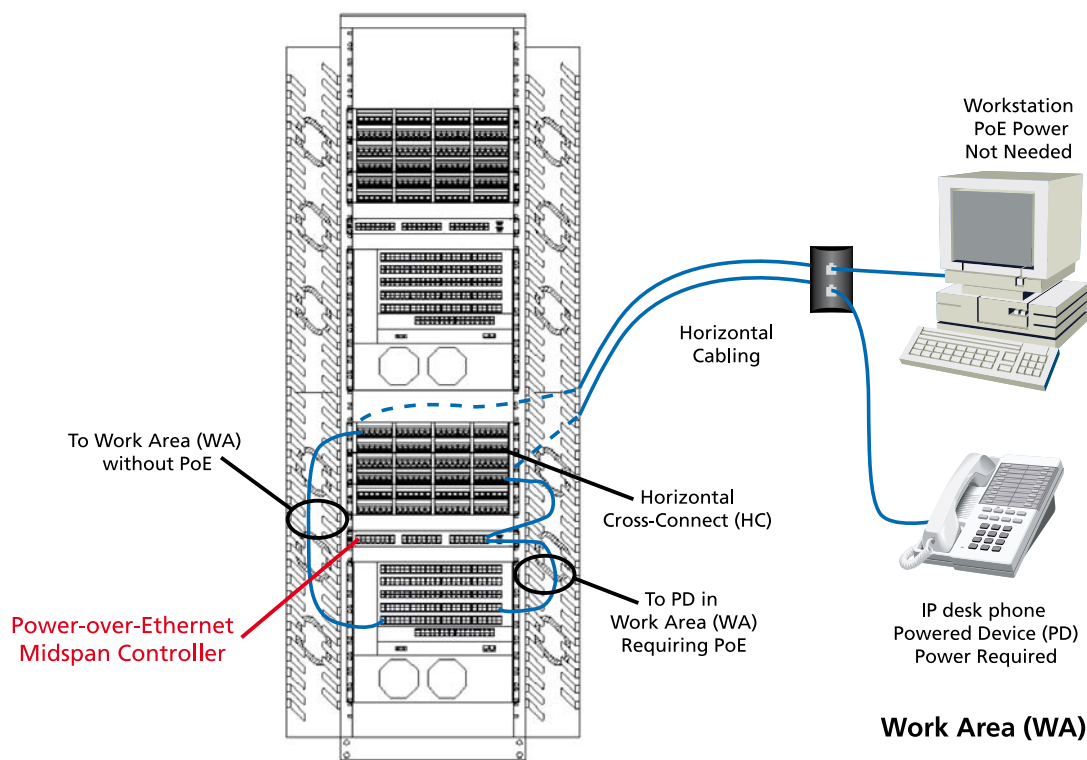
\*Replace XX with: 08 = 8 port, 16 = 16 port, 24 = 24 port

Note: All chassis accept the ADC KRONE modular SNMP module and redundant power supplies. Specify cord type when ordering.

# Data Centre & Communications Room

## PoE – TrueNet® Midspan Power-over-Ethernet Controller

### Applications



**Ethernet Distribution Frame  
In Telecommunications Room (TR)**

### Specifications

#### Mechanical

Ethernet interface:	24, 16, or 8 RJ45s
Ethernet plus power interface:	24, 16, or 8 RJ45s
Dimensions:	1.75" x 17.3" x 15.97" (44.4mm x 436mm x 300mm)
Weight (single power supply):	13.34lbs. (6.05Kg)
Weight (dual power supply):	16.75lbs. (7.60Kg)
Rack mounting:	19" or 23", EIA or WECO

#### Electrical

Power input voltage:	100 to 250VAC
Power input frequency:	50 to 60Hz
Power-over-Ethernet:	IEEE 802.3af and Legacy Cisco in-line: 15.4 Watts maximum output on all ports +48VDC output on pins 4,5 and 7,8
Powering pins:	400 Watts
Total available power:	RJ45 ports—green = power and Ethernet, yellow = 802.3af device detected, but not powered
LED indicators:	Power LED—green = power OK, red = fan failure or overtemp
Ethernet input/output:	10/100/1000BASE-T (Active signal pins 1,2 and 3,6)
Channel performance:	Category 5e and 6

#### Environmental and Safety

Safety compliance:	UL, cUL, CE, EN 60950
Emissions:	FCC Class A, EN 55022 (CISPR22)
Operating temperature:	0 to 40°C (32° to 104°F)
Storage temperature:	-20°C to 70°C (-4° to 158°F)

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Data Centre & Communications Room  
Power-over-Ethernet

# Data Centre & Communications Room

## PoE – TrueNet® Four-Port Midspan Power-over-Ethernet Unit

The TrueNet midspan Power-over-Ethernet four-port device is optimal for low density Power-over-Ethernet installations, such as 802.11x wireless access points or IP security cameras. The TrueNet midspan PoE device delivers compliant power to up to four devices, eliminating the need to upgrade existing Ethernet switches or provide potentially unreliable local AC power to each device separately. The compact design can be mounted to a shelf, rack or wall with an optional mount bracket.

As with ADC KRONE's rack mount midspan PoE solutions, the four-port unit features dual compliance to both IEEE 802.3af and the pre-standard Cisco in-line powering, allowing this device to power a wide range of solutions from all major manufacturers. Additional features include redundant power capabilities permitting two separate power supplies to be routed into the devices ensuring reliable operation. The rugged extruded aluminium design protects the internal electronics providing years of reliable service.



### Application and Benefits

- Four-port design is optimal for small device count situations such as Wi-Fi deployments, SoHo, etc.
- Eliminates installation issues with IEEE 802.3af compliant powered devices and all pre-standard in-line powered solutions
- Easy to install, upgrade, and maintain
- Allow utilisation of existing network, including Ethernet switch and cabling
- Years of reliable service and with minimal up-front cost
- Maintenance-free operation

### Features

- Supports 10/100/1000BASE-T
- Dual compliance to 802.3af and pre-standard in-line powering
- Redundant power supply capability
- Ability to deliver full 15.4 watts of power on all ports simultaneously
- Optional wall or rack mount bracket
- Compact, rugged, yet elegant design
- Aluminum extruded design for uncompromised reliability while still remaining lightweight

### Ordering Information

Description	Catalogue Number
10/100/1000BASE-T 4-Port Midspan Power-over-Ethernet Set-Top Unit	PWR-04DT-GE-E
10/100/BASE-T 4-Port Midspan Power-over-Ethernet Set-Top Unit	PWR-04DT-E
Redundant/Replacement Power Supply	PWR-04DTPS
Wall Mount Bracket Kit	ADCSTBK01A
Rack Mount Kit (holds three units)	PWR-04DTRM

# Data Centre & Communications Room

## PoE – TrueNet® Four-Port Midspan Power-over-Ethernet Unit

### Specifications

#### Mechanical

Ethernet interface, 10/100/1000 BASE-T Input:	4 x RJ45
Ethernet interface, 10/100/1000 data + power output:	4 x RJ45s
RS232 craft port interface:	D-Sub 9
Dimensions (height x width x depth):	39.37mm x 107.95mm x 203.20mm (1.55" x 4.25" x 8.00")
Weight:	0.7kg
Mounting:	Shelf, wall or rack (with bracket)

#### Electrical

Power input voltage (power supply):	100 to 240VAC
Power input voltage (set-top unit):	+48 VDC, 1.5 A maximum (dual inputs)
Power Input frequency (power supply):	50–60Hz
Power over Ethernet:	IEEE 802.3af and Cisco in-line
Powering pins:	+48 VDC output, Pins 4,5 and 7,8
Total available power:	72 Watts
LED indicators:	
RJ45 port LED:	Green – powered Dark – non-powered device Yellow – device detected, not powered Flashing yellow – port disabled
Power on/off LED:	Green – unit powered Dark – not powered Red – internal malfunction
Ethernet input/output:	10/100/1000BASE-T
Channel performance:	Category 5e and 6

#### Environmental and Safety

Safety compliance:	UL, cUL, CE, EN 60950, C-Tick
Emissions:	FCC Class A, EN 55022 (CISPR22)
Operating temperature:	0 to 40°C (32° to 104°F)
Storage temperature:	-20°C to 70°C (-4° to 158°F)

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