

# PM342E

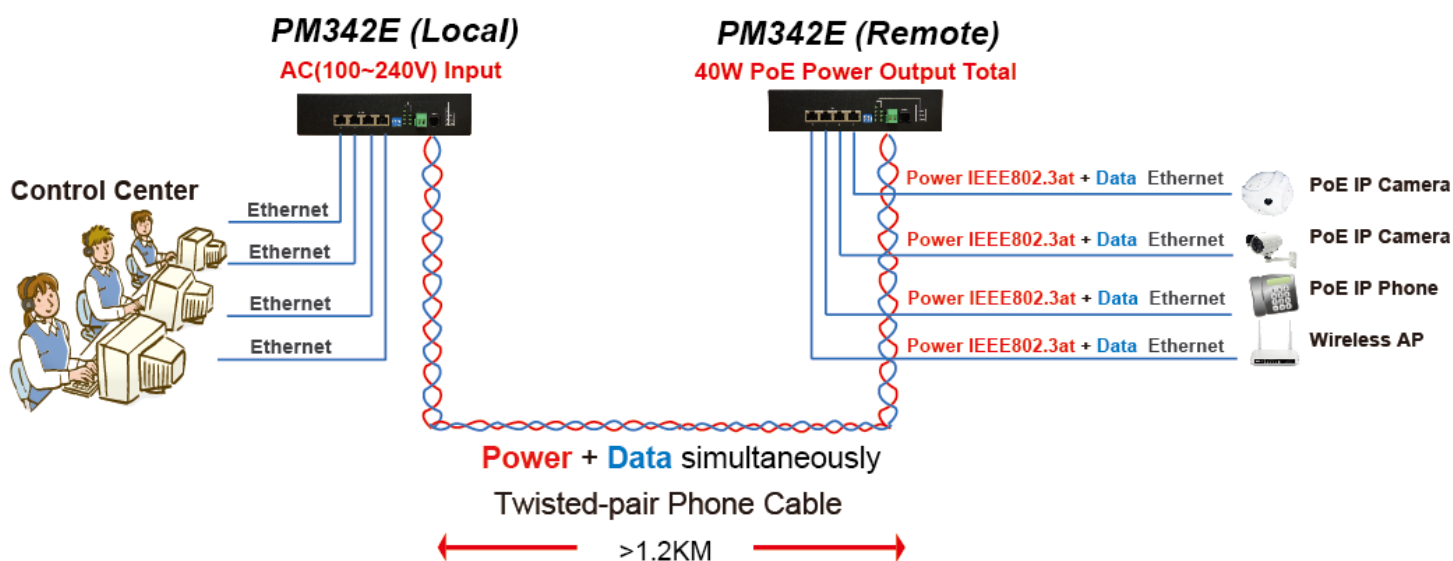
## Ethernet Extender with PoE (Twisted-Pair Phone Cable)



### Features

- High power delivery up to 40W by 1.2KM twisted-pair phone cable
- Support remote side Ethernet port 1~4 IEEE802.3at (40W for total PoE power budget)
- Power and data extend the distance up to 1.2KM by existing twisted-pair phone cable 24AWG
- Long distance speed up to 6.5/28Mbps (UL/DL) @1.2KM
- Wide transmission bandwidth data transmission
- Surge Protection, Reverse polarity, Short circuit protection
- Support PoE

### Application



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### Specifications

|                               |                           |                                                                                                                                      |       |       |       |        |
|-------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|--------|
| Standards                     |                           | IEEE802.3 10Base-T                                                                                                                   |       |       |       |        |
|                               |                           | IEEE802.3u 100Base-TX                                                                                                                |       |       |       |        |
|                               |                           | IEEE802.3x Flow Control and Back pressure                                                                                            |       |       |       |        |
|                               |                           | IEEE802.3af/at PoE                                                                                                                   |       |       |       |        |
| Data Architecture             |                           | Store and Forward                                                                                                                    |       |       |       |        |
| PoE RJ-45 pin assignment      |                           | RJ-45 port 1~4 support IEEE802.3af/at                                                                                                |       |       |       |        |
|                               |                           | Positive (VCC+) : RJ-45 pin 4, 5                                                                                                     |       |       |       |        |
|                               |                           | Negative (VCC-) : RJ-45 pin 7, 8                                                                                                     |       |       |       |        |
|                               |                           | Data : RJ-45 pin 1, 2, 3, 6                                                                                                          |       |       |       |        |
| PoE Standard                  |                           | IEEE802.3af/at (PM342E Remote Side)                                                                                                  |       |       |       |        |
| Connector                     |                           | RJ-11 x 1 or Terminal block x 1 for Twisted-pair Phone cable                                                                         |       |       |       |        |
|                               |                           | 4 Port RJ-45 for 10/100Base-T(X) Ethernet, and IEEE802.3af/at PoE (PoE port only for PM342E Remote Side)                             |       |       |       |        |
| Ethernet Cable                |                           | UTP/STP above Cat. 5e cable, EIA/TIA-568 100-ohm (100m)                                                                              |       |       |       |        |
| Transmission Cable            |                           | Twisted-pair Phone cable above 24AWG                                                                                                 |       |       |       |        |
| Signal Transmission           | Distance                  | 1200 Meters                                                                                                                          |       |       |       |        |
|                               | Bandwidth<br>UL/DL (Mbps) | 6.5/28Mbps@1200 Meters                                                                                                               |       |       |       |        |
| Power Transmission            | Distance                  | 1200 Meters                                                                                                                          |       |       |       |        |
|                               | Output Power              | PoE,40 Watt totally ; Max 19 Watt for single port                                                                                    |       |       |       |        |
|                               | Application               | PoE IP Camera, PoE IP Phone, Wireless AP                                                                                             |       |       |       |        |
| Power Feeding Watt            |                           | Powering Feeding by Twisted-pair Phone cable up to 40W for total @1,200M. Support per Ethernet port up to IEEE802.3at 18.5W maximum. |       |       |       |        |
| Performance and Power Feeding |                           | Distance of Twisted-pair Phone cable VS. Speed and Power                                                                             |       |       |       |        |
|                               |                           | Distance (Meter)                                                                                                                     | 300M  | 600M  | 900M  | 1200M  |
|                               |                           | Throughput Download/Upload                                                                                                           | 45/81 | 29/62 | 15/43 | 6.5/28 |
|                               |                           | Power Feeding by Twisted Pair Phone Cable                                                                                            | 40W   | 40W   | 40W   | 40W    |
|                               |                           | Tested under room temperature 25°C ; 24AWG twisted-pair phone cable                                                                  |       |       |       |        |
| Power Input                   |                           | 100~240VAC (PM342E Local Side)                                                                                                       |       |       |       |        |

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|                             |                                                                                                                       |        |                  |                  |            |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------|--------|------------------|------------------|------------|
| DIP SW (DIP Switch)         | DIP SW                                                                                                                | SW 1   | SW 2             | SW 3             | SW 4       |
|                             |                                                                                                                       | CO/CPE | Transmit Mode(1) | Transmit Mode(2) | Signal S/N |
|                             | ON                                                                                                                    | CPE    | Fast             | Asymmetric       | 6 dB       |
|                             | OFF                                                                                                                   | CO     | Interleave       | Symmetric        | 9 dB       |
| LED                         | LAN port 1~4 : LAN Link/Active (Green)                                                                                |        |                  |                  |            |
|                             | PWR : Green (ON : Device Power ON)                                                                                    |        |                  |                  |            |
|                             | CPE OFF : ACT as CPE(Remote Side) ;<br>CPE ON : ACT as CO(Local Side)                                                 |        |                  |                  |            |
|                             | LINK ON : Link ; LINK Flash : Linking ongoing ; LINK OFF : Disconnect                                                 |        |                  |                  |            |
| Dimension                   | PM342E Local Side : 200 x 190 x 48 mm (W x D x H)<br>PM342E Remote Side : 170 x 170 x 44 mm (W x D x H)               |        |                  |                  |            |
| Weight                      | 2.3KG (Total Weight)                                                                                                  |        |                  |                  |            |
|                             | 1.3KG (PM342E Local Side)                                                                                             |        |                  |                  |            |
|                             | 1.0KG (PM342E Remote Side)                                                                                            |        |                  |                  |            |
| Housing                     | Metal Case                                                                                                            |        |                  |                  |            |
| Operation Temperature       | -10~50°C                                                                                                              |        |                  |                  |            |
| Operation Humidity          | 5~95% (Non-condensing)                                                                                                |        |                  |                  |            |
| Installation                | Desk and Wall Mount                                                                                                   |        |                  |                  |            |
| Strike Protection           | Yes                                                                                                                   |        |                  |                  |            |
| SNR Detection               | Yes                                                                                                                   |        |                  |                  |            |
| Short Circuit Protection    | Present<br>(Twisted-pair Phone cable Power Feeding Short Circuit Protection)                                          |        |                  |                  |            |
| Surge Protection            | For Twisted-pair Phone and Network cable<br>EN61000-4-5 Level 3 Criteria B (Line to Ground 2KV)                       |        |                  |                  |            |
| Reverse Polarity Protection | Twisted-pair Phone cable DC Power Feeding Polarity Protection<br>RJ-45 Network Cable PoE DC Power Polarity Protection |        |                  |                  |            |
| Certification               | CE, FCC, ROHS                                                                                                         |        |                  |                  |            |
| EMI                         | FCC Part 15 Subpart B Class B, EN55022 Class B                                                                        |        |                  |                  |            |

※Product specifications are subject to change without prior notice.

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