

## TVoE - TV & Data over Ethernet

Article No. 310700/310710/310711



This device enables the distribution of TV signals and Internet data over standard CAT5E Ethernet cables or superior, ideal for installations without existing coaxial infrastructure. It features a built-in, high-performance adjustable amplifier and equalizer, allowing individual adjustment of the TV output level on each port. The MAIN hub includes four Ethernet ports, each supporting TV output & 1 Gbit data throughput with Power over Ethernet (PoE) functionality.

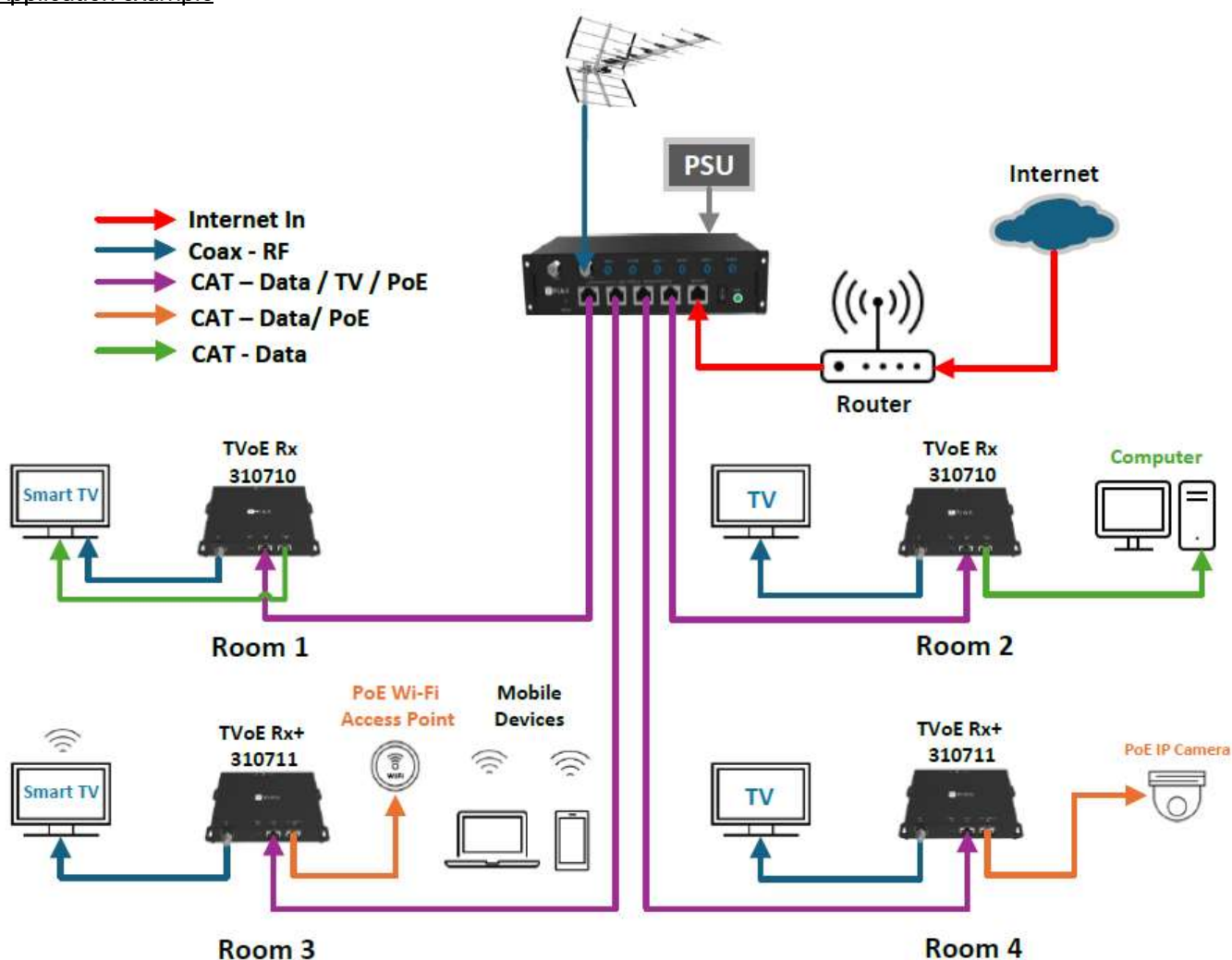
### Features

- **TV & Data Over Single Ethernet Cable** - Transmits both TV signals and internet data efficiently through CAT5e/6 Ethernet cables, eliminating the need for coaxial infrastructure.
- **Built-in Adjustable Amplifier & Equalizer** - Allows fine-tuning of TV output levels for optimal signal strength across all connected devices.
- **1Gbit Data Throughput** - Provides high-speed data transmission, ensuring smooth connectivity and reliable network performance.
- **PoE Two-Wire Output** - Supports Power over Ethernet (PoE) functionality, eliminating the need for a separate power supply for the receiver unit.
- **High-Speed Data Transfer** - Delivers fast and efficient data distribution for demanding network environments.
- **Four Ethernet Ports with TV Out Support** - Enables multi-room connectivity, distributing both TV and internet data from a single controller to multiple locations.
- **Super Easy Installation** - Designed for hassle-free setup, making it a practical and cost-effective solution for residential and commercial applications

## Items available

- TVoE-CONT. Art. No.310700: controller, TV and Internet input, 4 combined TV + Internet outputs, TV input signal level gain and slope adjustment, on each combined signal output, test point, PoE function
  - TVoE-Rx. Art. No.310710: receiver without LAN PoE function
  - TVoE-Rx+. Art. No.310711: receiver with LAN PoE function
  - TVoE PSU. Art. No.310720UK / 310722EU: 60W PSU (Use only with non-PoE LAN Rx)
  - TVoE PSU+. Art. No.310721UK / 310723EU: 96W PSU (Must use with PoE LAN Rx+)
- (If a TVoE Rx+ is used only fit 96W PSU+)

## Application example



## Technical specifications

| Item                          |                                                                                                                                      | Contents                                                           |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Frequency Range TV            |                                                                                                                                      | 300~694 MHz                                                        |
| Frequency Range Data          |                                                                                                                                      | 5~200 MHz                                                          |
| GAIN                          |                                                                                                                                      | 36 dB (Min.)                                                       |
| Noise Figure                  |                                                                                                                                      | 3.5 dB (Max)                                                       |
| Input Return Loss @TV IN port |                                                                                                                                      | 14.5 dB (Min.)                                                     |
| Input Return Loss @TEST port  |                                                                                                                                      | 14.5 dB (Min.)                                                     |
| Adjustable Attenuation        |                                                                                                                                      | 0-20 dB                                                            |
| Input Impedance               |                                                                                                                                      | 75 ohms                                                            |
| Output Impedance              |                                                                                                                                      | 100 ohms                                                           |
| Slope Adjustment              |                                                                                                                                      | 0-7 dB                                                             |
| Rated Input Level@ TV IN port |                                                                                                                                      | 70 dBuV@28 CH                                                      |
| Rated Output Level@ TEST port |                                                                                                                                      | 50 dBuV@28 CH                                                      |
| Current Consumption           |                                                                                                                                      | 0.53A (Operating with 4pcs of 310710 TVoE-Rx)                      |
|                               |                                                                                                                                      | 1.94A (Operating with 4pcs of 310711 TVoE-Rx+)                     |
| Connector@ TV IN Port         |                                                                                                                                      | F-female                                                           |
| Connector@ TEST Port          |                                                                                                                                      | F-female                                                           |
| Connector@ Output             |                                                                                                                                      | RJ-45                                                              |
| Data Rates                    |                                                                                                                                      | Ethernet 10/100/1000Mbps                                           |
| Operating Temperature         |                                                                                                                                      | 0~40 °C                                                            |
| TVoE-CONT<br>310700           | Dimension                                                                                                                            | 183.6*90*44(mm)                                                    |
|                               | Color                                                                                                                                | Black                                                              |
|                               | Weight                                                                                                                               | 555g                                                               |
|                               | Accessories                                                                                                                          | Bracket A*2pcs for wall-mounted<br>Bracket B*2pcs for rack-mounted |
| TVoE-Rx<br>310710             | Dimensions                                                                                                                           | 127*96*30(mm) without mounting ears                                |
|                               | Color                                                                                                                                | Black                                                              |
|                               | Weight                                                                                                                               | 300g                                                               |
| TVoE-Rx+<br>310711            | Dimensions                                                                                                                           | 127*96*30(mm) without mounting ears                                |
|                               | Color                                                                                                                                | Black                                                              |
|                               | Weight                                                                                                                               | 303g                                                               |
|                               | PoE Standard                                                                                                                         | IEEE 802.3af class 3                                               |
| Power Adaptor                 | Receiver without PoE Function                                                                                                        | 48V / 1.5A (310720UK/310722EU)                                     |
|                               | Receiver with PoE Function                                                                                                           | 48V / 2A (310721UK/310723EU)                                       |
|                               | Note: The power adapter selection depends on whether the receiver has PoE functionality. If PoE is present, use a DC 48V/2A adapter. | Purchased separately to suit application                           |