![level one logo]

HVE-6501R

HVE-6501T

HDMI over IP PoE Transmitter/Receiver

H/W Version: 1

Product Overview

The LevelOne HVE-650 Series is an innovative HDMI-over-IP Distribution Solution. Designed with transmitting units (HVE-6501T) and receiving units (HVE-6501R), it offers scalable digital signage distribution, supporting HDMI 1.3 with 1080p video resolution and simultaneous audio broadcast. The HVE-650 Series riches HDMI signal broadcasting connectivity options from small scaled home theatres, retail stores, up to large scaled public premises such as transportation hubs, leisure educational facilities, corporate premises and more.

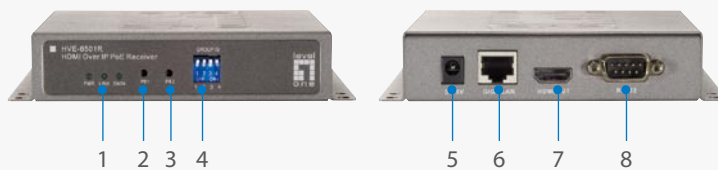### Powerful Distribution Capabilities

The pioneering LevelOne HVE-650 system expands HD digital content reachability. Allowing multiple sources extend to more than 200 remote displays in LAN without limit by cascading managed switches. The solution is highly flexible that Point-to-Point or Point-to-Many topologies could be conveniently arranged. And to meet wider range of application requirement, Many-to-Many connection is also easily achievable and manageable through VLAN & IGMP

v1/v2 with a managed network switch, where multiple video sources could be freely distributed to required monitors. With advanced broadcasting technology the bandwidth is not heavily loaded to the number of displaying units.

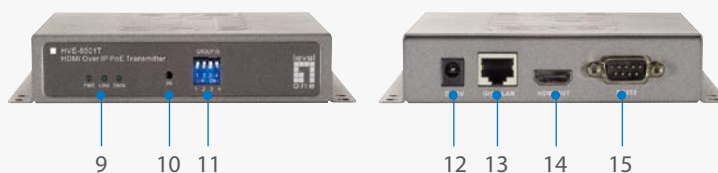### PoE Connectivity, Centralization and Grouping

The LevelOne HVE-650 Series offers options to be powered by PoE (with 802.3af standard) or external power supplying unit. With implementation of PoE web smart managed switch in the system, the receiving units could be powered on or off from control station. RS-232 over TCP/IP technology is incorporated with the HVE-650 solution, centralizing adjustments of HDMI display monitors settings. This enables the possibility of switching power, adjusting contrast and brightness of monitors remotely (this function is available depending on the of monitor model). Additionally, video sources could be distributed per preset display group via easily hardware adjustment of DIP switches. Or alternatively, software utility is available for distribution management.

HVE-6501R

1 2 3 4   5 6 7 8

1. LEDs
2. Push Button1
3. Push Button2
4. Group ID
5. DC input 5V/A
6. Gigabit Ethernet Port
7. HDMI Output
8. RS-232 for TV

HVE-6501T

9 10 11   12 13 14 15

9. LEDs
10. Push button1
11. Group ID
12. DC input 5V/A
13. Gigabit Ethernet Port
14. HDMI In
15. RS-232 for PC

Key Features

- Flexible and scalable HDMI 1080p Video Broadcasting with Gigabit Ethernet LAN
- Multicasting and broadcasting architecture, no more bandwidth loading
- Transmits an HDMI signal over one CAT5e/6/7 cable.
- HDMI 1.3b and HDCP 1.2 compliant
- Dual power input: 802.3af compliant PoE & DC5V
- Up to 16 transmitters and more than 200 receivers possible in a single system
- Built-in DIP switch to change Group ID and Utility for remotely
- RS-232 Control Pass-Thru to control HDMI display from transmitter side

Relate Products

GEP-2450
24 GE PoE with 4 Dual Speed Combo SFP Web Smart Switch

POR-0120
Gigabit PoE repeater

Technical Specifications

Maximum Resolution
HDTV 1080p (1920x1080 @ 60Hz)

System Cable
CAT5e/6/7 UTP/FTP/STP cable

HDMI Connector
Type A 19 pin, female

Signal type
HDMI 1.3 & HDCP 1.2 compliant

System Connector Type
100/1000Mbps RJ-45

Audio
HDMI formats

LED Indicator
PWR: Power LED indicator
LINK: LAN connection indicator
DATA: Data link indicator

Push Button
Push Button1: change Link / Unlink; Engineering Mode and Reset to default
Push Button2(for Receiver only): change between Video Mode / Graphic Mode ; Anti-Dither ; Update EDID

Multicast and broadcast
Support Point-to-Point, Point-to-Many and Many-to-Many network configuration
Multi-casting group with Gigabit Ethernet switch (required 802.1Q VLAN & IGMP v1/v2)

RS-232
DB9-F RS232 Port

Operating Temperature
0°C to 50°C

Operating Humidity
10~85% RH (no condensation)

Storage Temperature
-10~80°C

Storage Humidity
5~95% RH (no condensation)

Dimensions
140x114x28 mm

Power & Consumption
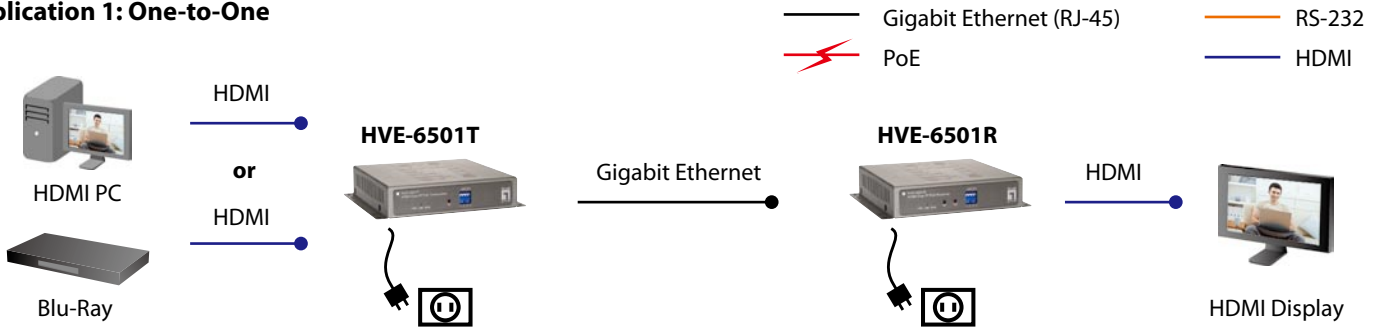5V/1A DC , 802.3af PoE
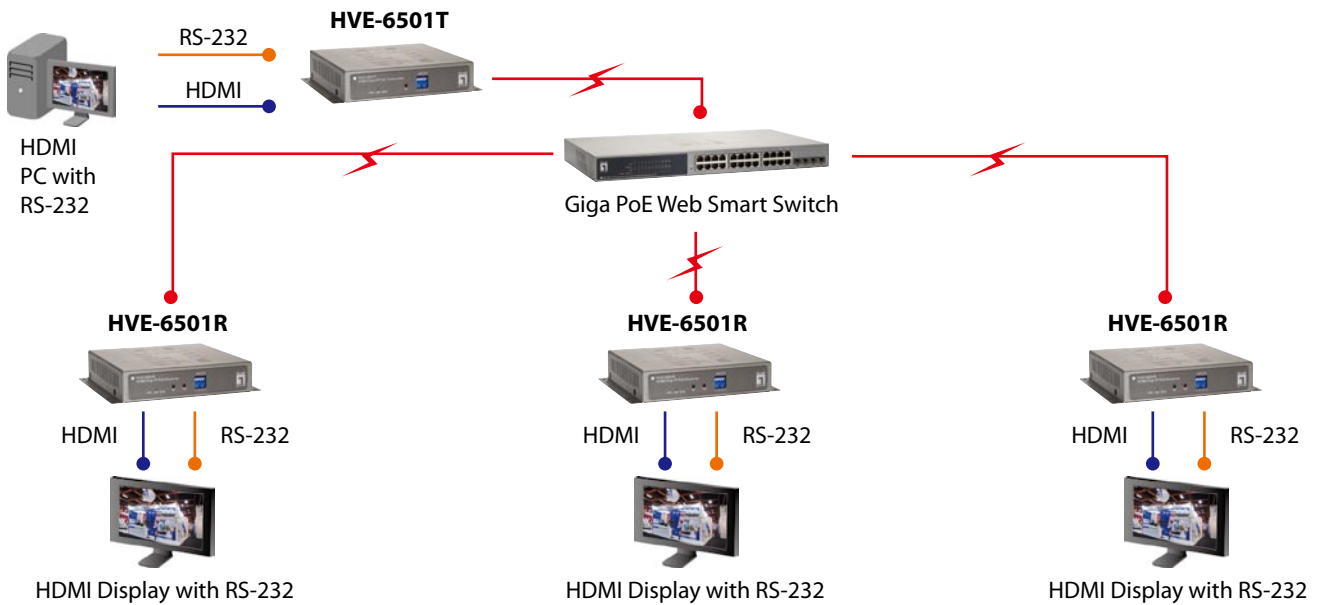Power consumption: Max. 8W

Weight
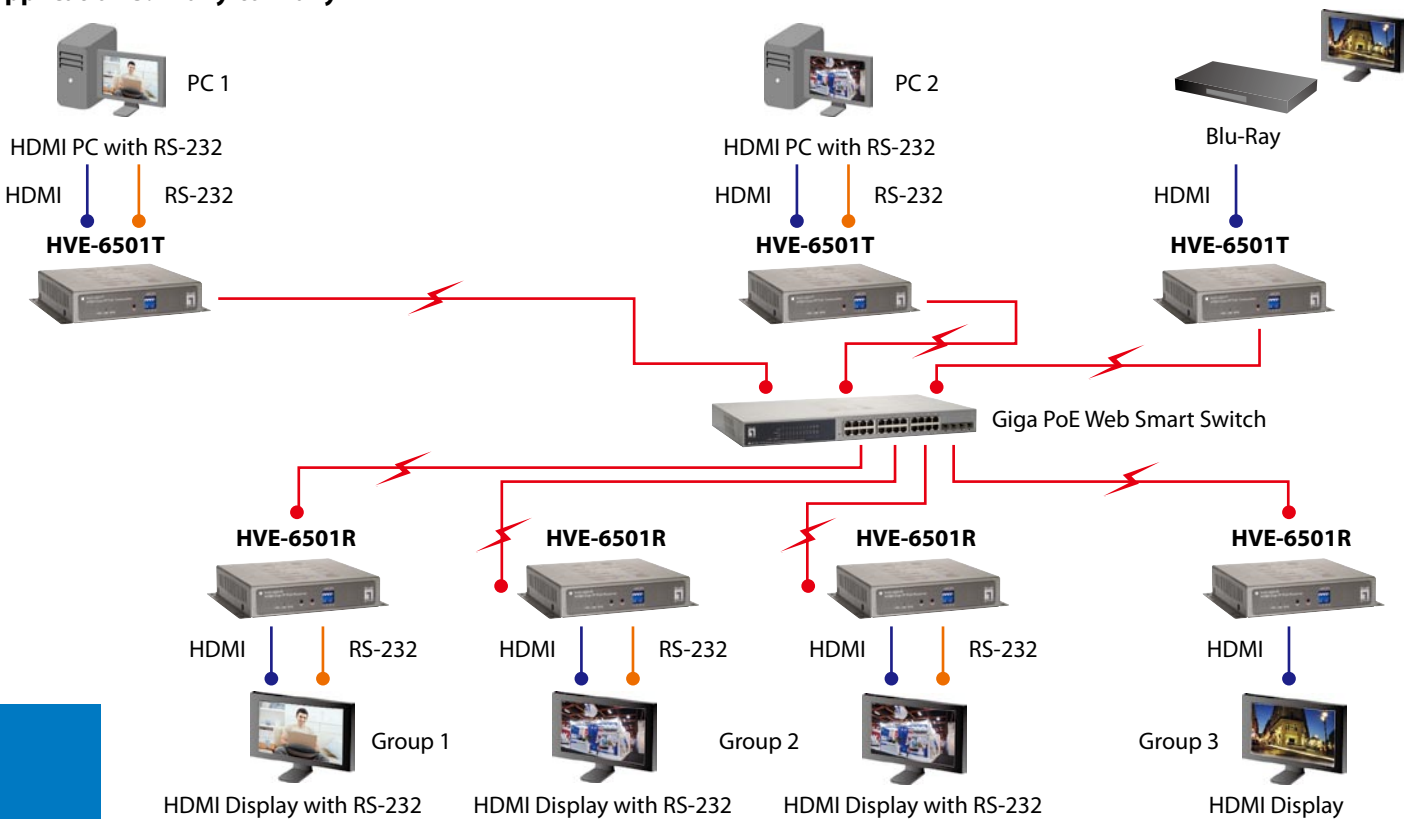0.8kg

regulatory Approvals
CE, FCC

Product Diagram

Application 1: One-to-One

Gigabit Ethernet (RJ-45) PoE RS-232 HDMI

HDMI PC

HDMI

or

HDMI

Blu-Ray

HVE-6501T

Gigabit Ethernet

HVE-6501R

HDMI

HDMI Display

Application 2: One-to-Many

HDMI PC with RS-232

RS-232

HDMI

HVE-6501T

Giga PoE Web Smart Switch

HVE-6501R

HDMI   RS-232

HDMI Display with RS-232

HVE-6501R

HDMI   RS-232

HDMI Display with RS-232

HVE-6501R

HDMI   RS-232

HDMI Display with RS-232

Application 3: Many-to-Many

PC 1

HDMI PC with RS-232

HDMI   RS-232

HVE-6501T

PC 2

HDMI PC with RS-232

HDMI   RS-232

HVE-6501T

Blu-Ray

HDMI

HVE-6501T

Giga PoE Web Smart Switch

HVE-6501R

HDMI   RS-232

HDMI Display with RS-232

Group 1

HVE-6501R

HDMI   RS-232

HDMI Display with RS-232

Group 2

HVE-6501R

HDMI   RS-232

HDMI Display with RS-232

Group 2

HVE-6501R

HDMI

HDMI Display

Group 3

Order Information

HVE-6501T: HDMI over IP PoE Transmitter

HVE-6501R: HDMI over IP PoE Receiver

Package Contents

HVE-6501T:
Power Adapter
CD Manual/Utility
Quick Installation Guide

HVE-6501R:
Power Adapter
CD Manual/Utility
Quick Installation Guide

V1.0