

# HDMI Wall-Plate Extender Kit, HDBT, UHD-4K, Decora 500451-WP-DEC, 500451-WP-DEC-TX

#### Overview:

The HDMI Wall-Plate Extender Kit, HDBT, UHD-4K, Decora allows HDMI equipment to be connected up to 230 ft (70m) @ 1080P via one (1) Cat5e/6 unshielded twisted pair cables in a point-to-point configuration. The kit comes with one (1) Transmitter and one (1) Receiver.

### Applications:

Commercial and residential AV systems, classroom projector systems, digital signage, boardroom systems, collaborative PC systems, medical information systems.



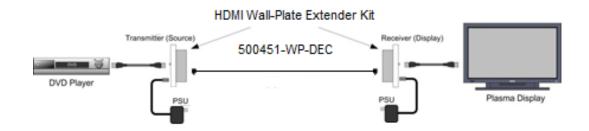


### Features:

- Supports 1080p deep color, 4K @ 30fps & 3D resolutions
- Up to 230 ft (70m) via Cat5e cable
- Supports Bidirectional IR
- Compatible with 500451
- May be powered from the front or rear

Devices DVD, plasma, projectors, monitors, TV, PC, laptops, servers supporting HDMI.  Transmission Transparent to the user  340MHz  Signals HDMI 1.4a protocol HDMI receptacle. One (1) RJ45S for Cat5e/6 unshielded or shielded twisted pair. HDMI cables not included.  Max. Distance* Cat 5e/6: 230 ft (70 m) up to 1080P Deep Color 131 ft (40 m) for 4K; 3840 x 2160/24, 25 830 Hz. When installed in an electrically noisy environment, STP cable must be used. Also, cross- connection reduces the effective distance depending on the grade of twisted cable used.  RJ45 Pin Configuration Reverse Polarity Sensitive Use EIA/TIA 568 A or B, Straight-through wiring.  Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)  Cable One (1) Category 5e or better twisted pair cables required.  Power Supply One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption GW per side Temperature Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing. Enclosure
Signals
Signals  HDMI 1.4a protocol  Connectors  HDMI receptacle. One (1) RJ45S for Cat5e/6 unshielded or shielded twisted pair.  HDMI cables not included.  Cat 5e/6: 230 ft (70 m) up to 1080P Deep Color 131 ft (40 m) for 4K; 3840 x 2160/24, 25 &30 Hz.  When installed in an electrically noisy environment, STP cable must be used. Also, cross- connection reduces the effective distance depending on the grade of twisted cable used.  RJ45 Pin Configuration Reverse Polarity Sensitive Use EIA/TIA 568 A or B, straight-through wiring.  Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)  Cable  One (1) Category 5e or better twisted pair cables required.  Power Supply  One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption  6W per side  Temperature  Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Metal Wall-Plate (one gang)
HDMI receptacle. One (1) RJ45S for Cat5e/6 unshielded or shielded twisted pair. HDMI cables not included.  Max. Distance* Cat 5e/6: 230 ft (70 m) up to 1080P Deep Color 131 ft (40 m) for 4K; 3840 x 2160/24, 25 &30 Hz. When installed in an electrically noisy environment, STP cable must be used. Also, cross- connection reduces the effective distance depending on the grade of twisted cable used.  RJ45 Pin Configuration Reverse Polarity Sensitive Use EIA/TIA 568 A or B, straight-through wiring. Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)  Cable One (1) Category 5e or better twisted pair cables required.  Power Supply One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption 6W per side Temperature Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Metal Wall-Plate (one gang)
Max. Distance*  Cat 5e/6: 230 ft (70 m) up to 1080P Deep Color  131 ft (40 m) for 4K; 3840 x 2160/24, 25 &30 Hz.  When installed in an electrically noisy environment, STP cable must be used. Also, cross- connection reduces the effective distance depending on the grade of twisted cable used.  RJ45 Pin Configuration Reverse Polarity Sensitive Use EIA/TIA 568 A or B, straight-through wiring.  Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 7 (R) Pin 8 (T) Pin 7 (R) Pin 8 (T)  Cable  One (1) Category 5e or better twisted pair cables required.  Power Supply  One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption  6W per side  Temperature  Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Metal Wall-Plate (one gang)
Max. Distance*  Cat 5e/6: 230 ft (70 m) up to 1080P Deep Color  131 ft (40 m) for 4K; 3840 x 2160/24, 25 &30 Hz.  When installed in an electrically noisy environment, STP cable must be used. Also, cross- connection reduces the effective distance depending on the grade of twisted cable used.  RJ45 Pin Configuration Reverse Polarity Sensitive Use EIA/TIA 568 A or B, straight-through wiring.  Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)  Cable  One (1) Category 5e or better twisted pair cables required.  One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption  Femperature  Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Metal Wall-Plate (one gang)
Max. Distance*  Cat 5e/6: 230 ft (70 m) up to 1080P Deep Color 131 ft (40 m) for 4K; 3840 x 2160/24, 25 &30 Hz.  When installed in an electrically noisy environment, STP cable must be used. Also, cross-connection reduces the effective distance depending on the grade of twisted cable used.  RJ45 Pin Configuration Reverse Polarity Sensitive Use EIA/TIA 568 A or B, straight-through wiring.  Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 7 (R) Pin 8 (T) Pin 7 (R) Pin 8 (T) Power Supply  One (1) Category 5e or better twisted pair cables required.  Power Consumption  6W per side  Temperature Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Metal Wall-Plate (one gang)
*Based on a maximum length of 6.6 ft (2m) of HDMI cable per end  RJ45 Pin Configuration Reverse Polarity Sensitive Use EIA/TIA 568 A or B, straight-through wiring.  Cable  One (1) Category 5e or better twisted pair cables required.  Power Supply  One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption  Find (A0 m) for 4K; 3840 x 2160/24, 25 &30 Hz.  When installed in an electrically noisy environment, STP cable must be used. Also, cross-connection reduces the effective distance depending on the grade of twisted cable used.  RJ45  Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 7 (R) Pin 8 (T)  One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption  GW per side  Temperature  Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Metal Wall-Plate (one gang)
*Based on a maximum length of 6.6 ft (2m) of HDMI cable per end  RJ45 Pin Configuration Reverse Polarity Sensitive Use EIA/TIA 568 A or B, straight-through wiring.  Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 7 (R) Pin 8 (T) Power Supply  One (1) Category 5e or better twisted pair cables required.  Power Consumption  6W per side  Temperature  When installed in an electrically noisy environment, STP cable must be used. Also, cross-connection reduces the effective distance depending on the grade of twisted cable used.  RJ45  Pair 2 Pair 1 Pair 3 Pair 4 Pair 2 Pair 1 Pair 3 Pair 4 Pair 2 Pair 1 Pair 3 Pair 4 Pair 3 Pair 4 Pair 2 Pair 4 Pair 3 Pair 4 Pair 4 Pair 4 Pair 3 Pair 4 Pair
connection reduces the effective distance depending on the grade of twisted cable used.  RJ45 Pin Configuration Reverse Polarity Sensitive Use EIA/TIA 568 A or B, straight-through wiring.  Pin 1 (R) Pin 2 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)  Power Supply  One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption  Temperature  Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Metal Wall-Plate (one gang)
RJ45 Pin Configuration Reverse Polarity Sensitive Use EIA/TIA 568 A or B, straight-through wiring.  Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)  Cable  One (1) Category 5e or better twisted pair cables required.  One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption  Femperature  Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Metal Wall-Plate (one gang)
Reverse Polarity Sensitive Use EIA/TIA 568 A or B, straight-through wiring.  Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)  Cable  One (1) Category 5e or better twisted pair cables required.  One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption  Femperature  Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Enclosure  Metal Wall-Plate (one gang)
Use EIA/TIA 568 A or B, straight-through wiring.  Pin 1 (R) Pin 2 (T) Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)  Power Supply  One (1) Category 5e or better twisted pair cables required.  One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption  Femperature  Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Enclosure  Metal Wall-Plate (one gang)
Straight-through wiring.  Pin 3 (R) Pin 6 (T) Pin 4 (R) Pin 5 (T) Pin 7 (R) Pin 8 (T)  Cable  One (1) Category 5e or better twisted pair cables required.  One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption  GW per side  Temperature  Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Enclosure  Metal Wall-Plate (one gang)
Pin 7 (R) Pin 8 (T)  Cable  One (1) Category 5e or better twisted pair cables required.  One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption  6W per side  Temperature  Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Enclosure  Metal Wall-Plate (one gang)
Cable One (1) Category 5e or better twisted pair cables required.  Power Supply One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption 6W per side Temperature Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Enclosure Metal Wall-Plate (one gang)
Cable       One (1) Category 5e or better twisted pair cables required.         Power Supply       One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.         Power Consumption       6W per side         Temperature       Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.         Enclosure       Metal Wall-Plate (one gang)
Power Supply One (1) 110-240V/5VDC power supply with interchangeable blades. Unit may be powered from the front or rear.  Power Consumption 6W per side Temperature Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing. Enclosure Metal Wall-Plate (one gang)
Unit may be powered from the front or rear.  Power Consumption 6W per side  Temperature Operating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.  Enclosure Metal Wall-Plate (one gang)
Power Consumption6W per sideTemperatureOperating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.EnclosureMetal Wall-Plate (one gang)
TemperatureOperating: 0° to 40° C. Storage:-20° to 85° C. Humidity: up to 95% non-condensing.EnclosureMetal Wall-Plate (one gang)
Enclosure Metal Wall-Plate (one gang)
=======================================
4.00% 4.00% 4.50% (404000) 014.07% (50) 111111111.
Dimensions 1.69" x 4.33" x 1.50" (43 x 110 x 38 mm). Choose 1.97" (50 mm) deep back box to allow
for Cat 5E/6 wiring connection.
Weight         1.6 LB (0.7 Kg)           Mounting         Screws included
Compliance Regulatory: FCC, CE, RoHS, UL, cUL, TUV
Warranty 2 years
Order Information 500451-WP-DEC HDMI Wall-Plate Extender Kit, HDBT, US (UPC: 627699034514) 500451-WP-DEC-RX HDMI Wall-Plate Receiver, HDBT, US (UPC: 627699834510)
500451-WP-DEC-TX HDMI Wall-Plate Transmitter, HDBT, US (UPC: 627699934517)

## **Typical Application:**



### **Product Photos**







