

TL-EMS-BPx1

Description:

The TL-EMS-BPx1 is a high performance RF broadband signal switcher with a bandwidth of DC to 1000 MHz (Figure 1). Use the wireless remote control to select between the original signal or an in-line device connected to this signal. The in-line device could be any device to modify the original signal. Figure 3 shows a basic application. The TL-EMS-BPx1 is controlled by a remote (see Figure 2). Indoor control distance is up to 100 ft, through typical building material (non-metallic); up to 300 feet with extended control cable (Figure 2); and up to 1000 feet with no obstructions between Tx and Rx.

The TL-EMS-BPx1 has high-quality RF characteristics, which makes it suitable for commercial, industrial, experimental, and residential applications. It distributes and switches RF signals without spectrum loss or distortion, and high isolation between input signals. The input to output insertion loss is 1 dB.

Figure 3 shows a basic application of the TL-EMS-BPx1 where it is used in a building for TV distribution. User(s) with the remote can select the original signal or the modified version of the signal to feed through the distribution system.

Features:

Simple installation - includes input selection LED

Ability to select between original signal and modified version of original signal using wireless push-button RF remote control (FCC Certified)

Indoor, wireless remote control with easy to install RF receiver

Excellent RF characteristics

Compatible with Tin Lee RF products to integrate local content or modify the Cable TV spectrum

Multiple remote controls can operate in the same zone

Each remote control has a unique ID

Two-year limited warranty

Custom computer control option (RS-232)

Available in 75 ohms and 50 ohms impedance



Figure 1: TL-EMS-BPx1 N50 shown

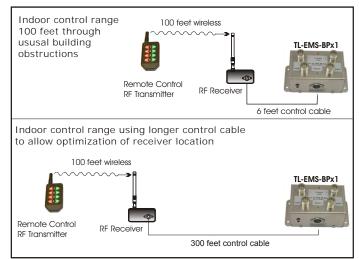
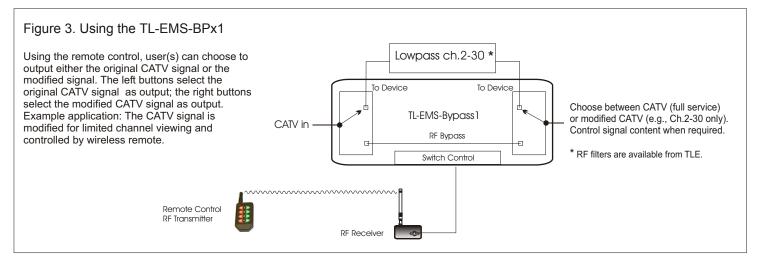


Figure 2: Remote Control Range



Product Applications

Residential and Small building: allows user remote selection between original signal and user modified signal **Commercial:** Remote selection of original or modified signal for distribution to e.g., TV show room, entertainment venues **Industrial:** CATV and Broadcast TV/FM device testing and signal comparison

Emergency and Security Systems: RF broadband signal switcher for monitoring and messaging applications

Product Specifications

Bandwidth and Flatness DC-1000 MHz +/- 1 dB

Number of Ports Four (4): Input, Output, Device ports

Input Signal Level 10 dBmV

Insertion Loss (Input-Output) 1 dB (in/out) or 1 dB and device thru loss

Isolation (Input to Input)> 65 dBIsolation (Output-Output)> 65 dBInput Return Loss;>18 dBOutput Return Loss:>18 dB

RF Connectors, Impedance F-type female, 75 ohms **Operating Power** 9 V DC (Power Adapter Incl.)

Power Consumption 1 Watt

Remote Control: Transmitter - CMD HHLR-315

Receiver - TL-Rx-315 (Rs232)

Max. Input Power to Switch1 WattSwitching Speed20 ms

Dimensions (in): 4.5 x 2.5 x 3.5 (114.3 mm x 63.5 mm x 88.9 mm)

Other Models TL-EMS-BPx2 and TL-EMS-BPx3

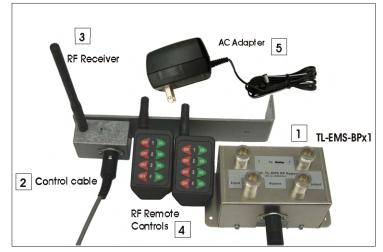
Order Information Model # TL-EMS-BPx1

TL-EMS-BPx1 basic package list (see figure 4)

- 1. One TL-EMS-BPx1 Switch
- 2. One 6-foot shield control cable * (circular plugs at ends)
- 3. One TL-Rx-315 Receiver (FCC compliant and Industry Canada certified) with mounting bracket
- 4. Two CMD-HHLR-315 Transmitters * (FCC certified)
- 5. One +9 V DC Power adapter (UL certified)
- * Includes user manuals for TL-EMS-2x4, Tx and Rx.

*Options:

Control cable - length can be specified up to 300 ft. **Remote Control -** additional units available with same configuration and ID or "custom"



Description: Bypass RF Switch with remote control.

Figure 4