**ComX Computers**
Product Specification Sheet

# CNV-IMMS-IM02-RX

Lenkeng IMMS-IM02-RX HDMI Matrix extender receiver only

## Product Overview

Lenkeng IMMS-IM02-RX HDMI Matrix extender receiver only, 4K@60Hz HDMI over IP Matrix, Supports up to 3840x2160 @60Hz Resolution (Requires transmitter - not included)












## Specifications

### Overview Summary:

The Lenkeng IMMS-IM02-RX is a high-definition HDMI matrix receiver designed for efficient 4K@60Hz video over IP transmission. It supports one-to-one and many-to-many connections through a gigabit switch, making it ideal for setting up flexible video walls or multi-screen displays. Compatible with CAT5e/6 cables and offering low-latency streaming, this device ensures smooth and reliable video delivery. Shop now to upgrade your video infrastructure with advanced HDMI over IP technology.

Perfect for professional installations, the receiver supports RS-232 control, bi-directional IR, and POE, allowing seamless integration into your existing setup. Whether you're connecting multiple sources or extending HDMI signals over long distances, this receiver provides a stable and high-quality solution. Buy now to experience enhanced video performance in South Africa.

**Performance tier:**Premium

**Uses:**Video wall setup, multi-screen displays, conference rooms, home theater, digital signage, professional AV installations

## Overview:

Lenkeng IMMS-IM02-RX is a dedicated HDMI over IP matrix receiver designed for high performance 4K video distribution across professional AV environments. It enables flexible signal routing over standard IP networks, supporting ultra high-definition video transmission up to 4K at 60Hz with low latency and stable performance. Built for scalable installations, it is suited for control rooms, commercial displays, education systems, and multi-screen video wall setups. Part number CNV-IMMS-IM02-RX.

## Description:

This receiver unit is engineered to extend HDMI signals over long distances using IP-based infrastructure, removing the limitations of traditional point-to-point HDMI cabling. It supports high bandwidth video, stable signal decoding, and flexible matrix configurations, making it ideal for complex AV distribution systems requiring reliability and scalability. It integrates seamlessly into network-based setups using Gigabit switches and supports advanced control options for professional deployments.

## Features:

**4K HDMI over IP Matrix Receiver Performance and Connectivity**
The IMMS-IM02-RX operates on ipcolor STREAM technology, delivering high-definition video with low latency transmission suitable for demanding real-time applications. It supports resolutions up to 3840 x 2160 at 60Hz while maintaining backward compatibility for lower resolutions, ensuring broad device support.

It is compatible with Cat5e, Cat6, and higher-grade network cabling. When using Cat6 cable, transmission distances can reach up to 120 meters, making it suitable for large-scale installations. The system supports both one-to-one and many-to-many configurations through Gigabit network switches, allowing flexible matrix switching across multiple endpoints.

Key capabilities include RS-232 passthrough control, bi-directional IR transmission, and support for IR learning with application-based control. It also supports Power over Ethernet, reducing the need for separate power sources in supported setups.

**Key System Capabilities**

- Supports HDMI 2.0 with HDCP 1.4 and HDCP 2.2 compatibility
- Maximum transfer rate up to 18Gbps for stable high bandwidth video
- Supports video wall creation up to 5x5 layouts, including multiple split configurations for digital signage applications
- Enables up to 256 input sources and 256 output endpoints in a fully managed matrix system via software control
- Supports HDMI loop out on transmitter side for local monitoring

**Transmission and Control Performance**
Latency is optimized for professional use cases, with 4K at 60Hz transmission latency ranging between 130 to 200ms, and 1080p at 60Hz ranging between 70 to 130ms. IR control operates within a frequency range of 20kHz to 60kHz with a receiving distance of up to 5 meters, enabling remote device operation and integration with control systems.

RS-232 control is supported with a default baud rate of 115200, with additional selectable rates including 2400, 4800, 9600, 19200, 38400, 57600, and 115200 for flexible system integration.

**Technical details and operating parameters**

- HDMI cable length support: up to 5 meters

- Transmission distance: Cat5 up to 80 meters, Cat5e up to 100 meters, Cat6 up to 120 meters
- Resolution support includes: 4096x2160 at 24/30Hz, 3840x2160 at 24/30/50/60Hz, 1080p at 50/60Hz, 720p at 50/60Hz, 1920x1200 at 60Hz, 2560x1440 at 60Hz
- Audio output: LPCM 2.0
- Power supply: DC 5V/2A (TX and RX alternative support)
- Power consumption: TX less than or equal to 5.5W, RX less than or equal to 3.5W
- Operating temperature: -20C to 60C
- Storage temperature: -30C to 70C
- Humidity tolerance: 0 to 90 percent RH non-condensing
- Housing material: Iron enclosure for durability
- Dimensions: 191.0 x 96.0 x 25.0 mm
- Weight: TX 523g, RX 514g
- Protection: ESD protection with contact discharge level 2 (plus or minus 4KV) and air discharge level 3 (plus or minus 8KV), compliant with IEC61000-4-2 standards
- Surge and lightning protection included for enhanced system reliability

This receiver is designed for professional AV matrix systems requiring scalable video distribution, centralized control, and long-distance HDMI extension over IP infrastructure.

## Specifications:

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| Specifications | |
|---|---|
| **Product Code** | CNV-IMMS-IM02-RX |
| **HDMI length** | <= 5m |
| **Maximum transfer rate** | 18Gbps |
| **Compatibility** | HDMI 2.0 , HDCP 1.4/HDCP 2.2 |
| **Resolutions** | 4096x2160@24/30Hz, 3840x2160@24/30/50/60Hz, 1080p@50/60Hz,720p@50/60Hz, 1920x1200@60Hz, 2560x1440@60Hz |
| **Connection types** | One-to-one connection |
| | Many-to-many connection |
| | Switch cascading |
| **Transmission distance** | CAT5 80m / CAT5E 100m / CAT6 120m |
| **Transmission latency** | 4K@60Hz: 130~200ms |
| | 1080P@60Hz: 70~130ms |
| **HDMI output** | LPCM 2.0 |
| **IR receiving range** | <= 5m |
| **IR frequency** | 20kHz~60kHz |
| **RS-232 (GND/RXD/TXD)** | Default baud rate: 115200 |
| | Supported: 2400, 4800, 9600, 19200, 38400, 57600, 115200 |
| **Power Supply** | TX/RX : DC 5V/2A(alternative) |

| | |
|---|---|
| **Power Consumption** | TX <= 5.5W |
| | RX <= 3.5W |
| **Working temperature** | - 20degreesC~60degreesC |
| **Storage temperature** | - 30degreesC~70degreesC |
| **Humidity** | 0~90%RH (no condensation) |
| **Housing** | Iron |
| **Weight** | TX : 523g , RX : 514g |
| **Color** | Black |
| **Dimensions** | 191.0(L)*96.0(W)*25.0(H)mm |
| **Protection** | ESD protection |
| | 1a Contact discharge level 2 (+/-4KV) |
| | 1b Air discharge level 3 (+/-8KV) |
| | Implementation of the standard: IEC61000-4-2 |
| | Lightning protection, Surge protection |

## Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

**Product page:**
**https://www.comx-computers.co.za/CNV-IMMS-IM02-RX-Lenkeng-IMMS-IM02-RX-HDMI-Matrix-extender-receiver-only-p-336542.php**

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