

# MonaLisa®-Pony - HDMI IP-Extender

## Manual, Features, Specifications - QMS-310xT/R

### 1. Overview

'MonaLisa®-Pony' is the 'HDMI IP-Extender' that transmits HDMI video/audio to wherever it wants to send through standard TCP/IP Ethernet network. It is composed of transmitter ('T' tagged to its name) and receiver ('R' tagged to its name) in regard of video.

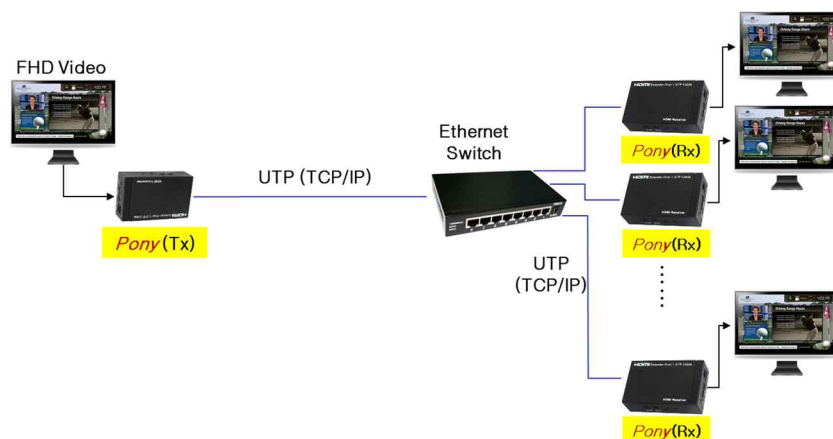


[ MonaLisa®-Pony Picture]

**[Table] Interface Ports of MonaLisa®-Pony Products**

Interface Ports	QMS-3105T QMS-3105R	QMS-3107T QMS-3107R	Remarks
HDMI (stereo audio included)	O	O	HDMI over TCP/IP network
Ethernet (RJ45)	Fast Ethernet	Fast Ethernet	Standard TCP/IP
Console (RJ45)	O	-	IP configuration
Micro-B type USB	Power Charge	Power Charge	<u>Only for power charge;</u> not for KBD/Mouse/Storage
DC Jack	5V/1A	5V/1A	

### Application (Example) - Digital Signage over TCP/IP (UTP, Ethernet)



**[Picture] Broadcasting for Digital Signage**

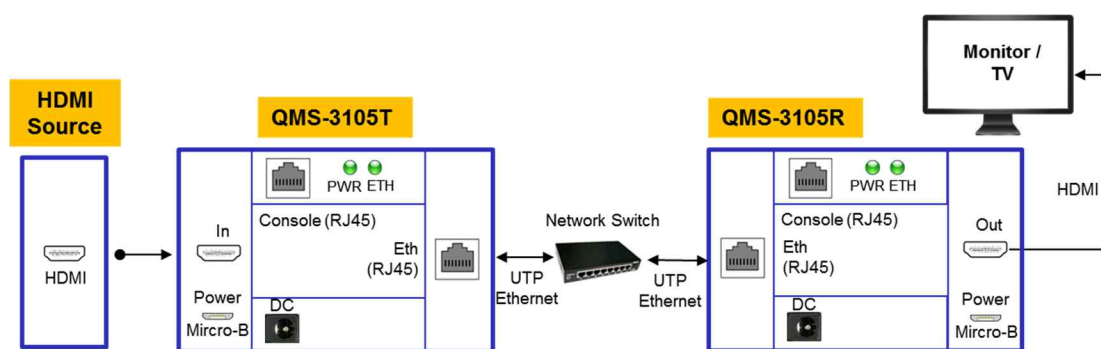
## 2. Features

Features	Description	Remarks
Long Distance of Transmission	UTP 100m ~ 200m; optic cable ~ 2Km; Reaches anywhere TCP/IP network connects	Repeated by every Ethernet switch hub
Bandwidth occupation (typical)	Still video 5Mbps ~ 9Mbps Music video 21Mbps ~ 35Mbps	Varies according to video complexity
Low power consumption	QMS-310xT 2.85W (typical) ~ 3.0W (max.) QMS-310xR 1.7W (typical) ~ 2.0W (max.)	
Media	UTP cable, optic cable, Ethernet switch hub	
Various Resolutions	1920 x 1080 (Full-HD, 1080p), 1680 x 1050 (WSXGA), 1280 x 1024 (SXGA) 1280 x 720 (HD, 720p), 1024 x 768 (XGA), 800 x 600 (SVGA), 640 x 480 (VGA)	Progressive video only - 1080p, 720p, 480p, and etc; 60Hz / 50Hz
Operating Temp.	0°C ~ 60°C	

## 3. Product Components

Items	Specifications	Q'ty	Remarks
Transmitter (QMS-310xT)	85mm(L) x 50mm(W) x 21(H)	1	To be revised
Receiver (QMS-330xR)	85mm(L) x 50mm(W) x 21(H)	1	To be revised
USB cable	50cm, Type-A -to- micro-B	2	OTG USB cable Power supply purpose only
HDMI cable	50cm	2	Sales option Length to be determined
Power Adaptor	DC output: 5V/1A AC input: 110V ~ 220V, 50/60Hz	2	Sales option Length to be determined
Manual		1	

## 4. How to Connect and Build System Structure



[Picture] <QMS-3105T – QMS-3105R> System Connection Structure

\* In above picture, product's port location is placed and denominated for recognition's sake.

- QMS-310xT transmitter is connected via HDMI cable to HDMI output port of video source devices like PC and set-top-box.
- QMS-310xR receiver connects to monitor/TV via HDMI cable as well.

- The transmitter and receiver are connected via Ethernet cable (UTP or fiber optic cable) directly or through the step of Ethernet switches in-between.

## 5. Cautions! – Network Connection, Device Information and Configuration

### 5-1. Network Connection

(1) QMS-3107T (transmitter) ↔ QMS-3107R (receiver)

- A. No console port supported. – Device’s source/destination IP addresses can’t be changed.
- B. Separated network build is recommended for these devices.
- C. No more than one (1) transmitter must be linked to a single separate network while multiple receivers are allowed to be linked to the network.
- D. The Ethernet switch hub used for linking a transmitter and receivers should support broadcasting.

**[Table] IP Addresses of MonaLisa®-Pony Devices (ex.- default values)**

Addresses	Transmitter (QMS-310xT)	Receiver (QMS-310xR)
<b>Source IP</b>	192.168.0.248	192.168.0.249
<b>Destination IP</b>	192.168.0.249	192.168.0.248
<b>Gateway IP</b>	192.168.0.1	192.168.0.1

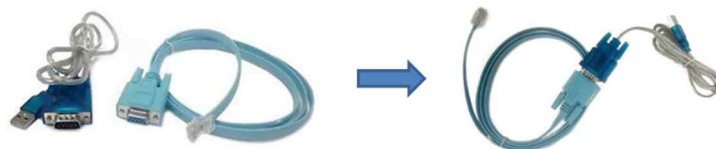
(2) QMS-3105T (transmitter) ↔ QMS-3105R (receiver)

- A. Console port is available for IP address configuration of the devices.
- B. Default network configuration values are same as QMS-3107T/R.
- C. User should change devices’ IP addresses to avoid communication conflict if they are to be connected to existing network (non-separate).

*(Contact regional sales distributors for device network value configuration)*

### 5-2. How to Check and Configure Device Network Information – QMS-3105T/R

- Connect QMS-3105T/R’s console port (RJ45) to computer’s USB port using RJ45-to-Serial cable and Serial-to-USB cable as follows :



[Picture] RJ45-to-USB Cable

*(Contact regional sales distributors for detail usage support)*