PRODUCT DATA SHEET

VyNET2

Video Over IP Network Solution for 4K



Revision History

Version Number	Revision Date	Page	Description of Changes
1.0	Nov.21, 2018	ALL	Initial Version
1.1	Oct .152019	ALL	Renewal Specification

PROPRIETARY NOTE

*THIS DOCUMENT CONTAINS INFORMATION CONFIDENTAL AND PROPIETARY TO OPHIT CO.,LTD

AND SHALL NOT BE REPRODUCED OR TRANSFERRED TO OTHER DOCUMENTS ORDISCLOSED TO OTHERS

OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS OBTAINED WITHOUT THE EXPRESSED

AND WRITTEN CONSENT OF OPHIT INCOPORATION

TABLE OF CONTENTS

1. General Description	4
2. General Specification	5
2.1 Specification	
3. Absolute Maximum Ratings	
4. Electrical Specification	6
4.1 Transmitter	
4.2.Receiver	
5. Mechanical Specification	7
5.1 Transmitter and Receiver Case Dimension	
5.2 Design drawing	
6. Regulatory	10
6.1 EMC & Safety Agency approval	
6.1.1 CE-EMC compliance	
6.1.2 FCC compliance	
7. Packing Information	10
8. RoHS	11
9. REACH	12

1. General Description

VyNET2 is a 4K UHD video over IP network solution that connects video sources to end-point destinations. Vy-Net2 provides a complete and highly flexible networked system solution.

- HDMI input / output
 - Video input: HDMI 1.4 / 2.0
 - Video output: HDMI 1.4 / 2.0
 - Supports resolutions up to 4K2K@60Hz 8-bit 4:4:4
 - Supports HDCP 1.4 to HDCP 2.2 conversion
 - Supports HDCP 2.2 to HDCP 1.4 conversion
- Network interface¹⁾
 - 10GBaseT copper
 - In order to achieve the best performance, it is recommended to use CAT7 cable.
- Analog stereo audio input / output
- KVM²⁾
 - Keyboard:
 - ✓ Supports only basic USB2.0 wired keyboard.³⁾
 - Mouse
 - ✓ Supports only basic 3-button USB2.0 wired mouse.⁴⁾
- External Interface
 - LED indicators / Recall Button / RS232

2. General Specification

2.1 Specification

Par	ameter	Vy-Net2 TX (T001)	Vy-Net2 RX (R001)	
Inpu	ıt Signal	HDMI 2.0	10GbE(Copper)	
Outp	ut Signal	10GbE(Copper)	HDMI 2.0	
	n Supporting solution	3840x2160@60Hz		
USB	For keyboard	USB A Type x 1	USB A Type x 1	
Connector	For mouse	USB A Type x 1	USB A Type x 1	
Audio	Connector	Phone Jack x 1	Phone Jack x 1	
RS232	Connector	D-sub 9pin x 1	D-sub 9pin x 1	
Module	Dimension	195 x 110 x 35 mm (W x D x H)		
Modu	le Weight	580g	580g	
Enclos	sure Color	White		
F	ower ower	DC +	+12V	

3. Absolute Maximum Ratings

Parameter	Rating
Storage temperature	-20°C ~ +70°C Non-Condensing
Operating temperature	0°C ~ +40°C Non-Condensing
Transportation temperature	-20°C ~ +70°C Non-Condensing
Power Supply	+12.0 V
Relative Humidity	10 ~ 80 %
Lead solder temperature	380°C +/-30°C, 10 seconds

NOTICE

Stresses greater than those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operations section for extended periods of time may affect reliability.

4. Electrical Specification

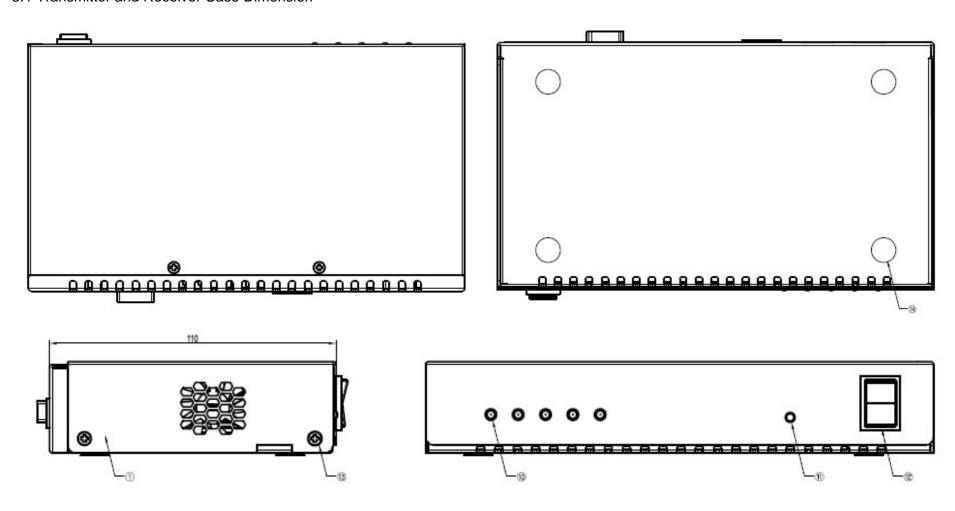
4.1 Transmitter

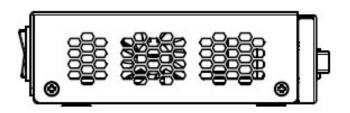
Parameter		Symbol	Min	Тур	Max	Units	Condition
	Supply Voltage(DC)	Vcc		+12		V	
P O W E R	Supply Current	Icc		1.07		^	Standby
				1.65		A	Working
	Power Dissipation	Ро		19.8		W	

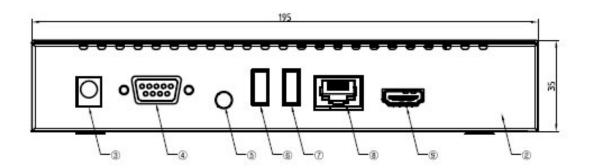
4.2 Receiver

Parameter		Symbol	Min	Тур	Max	Units	Condition
	Supply Voltage(DC)	Vcc		+12		V	
P O W E R	Supply Current	Icc		1.10			Standby
				1.70		A	Working
	Power Dissipation	Ро		20.4		W	

5. Mechanical Specification5.1 Transmitter and Receiver Case Dimension





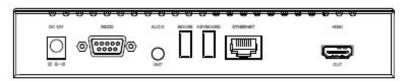


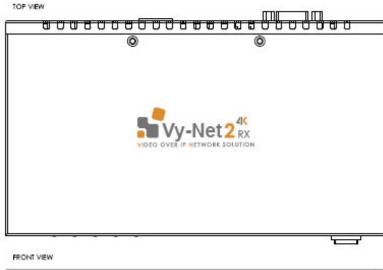
NO	PART NAME	NO	PART NAME	NO	PART NAME
1	TOP CASE	6	USB(MOUSE)	11	RECALL BUTTON
2	BOTTOM CASE	7	USB(KEYBOARD)	12	POWER SWITCH
3	POWER DC JACK	8	ETHERNET	13	SCREW(FH-M3)
4	RS232	9	HDMI(IN PORT)	14	FOOT RUBBER
5	AUDIO JACK	10	LED INDICATOR	-	

5.2 Design drawing

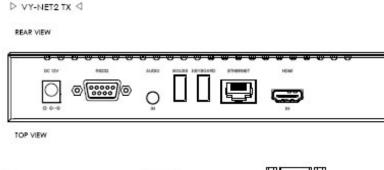
∨Y-NET2 RX

REAR VIEW













6. Regulatory

6.1 EMC & Safety Agency approval

6.1.1 CE-EMC compliance:

This Product is investigated to EN55032:2015:2015, EN55035:2017, EN61000-3-2:2014 and EN61000-3-3:2013

6.1.2 FCC compliance:

This Product is investigated to FCC 47CFR part 2 and part 15

7. Packing Information

Set(Unpacking, VyNET2 Only)	195.0mm*110.0mm*35.0mm	1.16Kg
Package(1Set, Inner Box Packing)	302.0mm*310.0mm*62.0mm	1.37Kg
Package(Multi, 8PCS Packing)	595.0mm*305.0mm*345.0mm	11.0Kg

8. RoHS

OPHIT is fully aware of the requirement under the Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive EU 2015/863(RoHS3), which adds four new restricted substances to the previous Directive 2011/65/EU(RoHS2).

Hereby we guarantee that we do not intentionally use the substances described below and based on third party chemical analysis the thresholds of the substances as indicated are not exceeded for our all products.

Substance	CAS#	RoHS Limity by % (PPM)
Lead (PB)	7439-92-1	0.1% (1000 PPM)
Mercury (Hg)	7439-97-6	0.1% (1000 PPM)
Hexavalent Chromium (CrVI)	15840-29-9	0.1% (1000 PPM)
Polybrominated Biphenyls (PBB)	-	0.1% (1000 PPM)
Polybrominated Diphenyl Ethers (PBDE)	-	0.1% (1000 PPM)
Cadmium (Cd)	7440-43-9	0.01% (100 PPM)
Bis(2-Etylhexyl) phthalate(DEHP)	117-81-7	0.1% (1000 PPM)
Benzyl butyl phthalate(BBP)	85-68-7	0.1% (1000 PPM)
Dibutyl Phthalate(DBP)	84-74-2	0.1% (1000 PPM)
Disobutyl Phthalate(DIBP)	84-69-5	0.1% (1000 PPM)

Banned Substances by RoHS Directive 2011/65/EU+2015/863/EU, EN50581:2012

OPHIT will continue to monitor any new amendments/changes to Directive and subsequently review our all products with regards to compliance. OPHIT will also ensure that any new information is communicated to its customers, suppliers and stakeholders as required.

Signature: Jong-Kook, Moon Jang-Kook, Moon

Title/Issue date: President/July.22.2019

9. REACH

The European REACH Regulation 1907/2006 on Registration, Evaluation, Authorization, and Restriction of Chemicals(REACH), Annex XV II entered into Force in June 2009, and affects all companies producing. Importing, using, or placing Products on the European market. The aim of the REACH regulation is to ensure a high Level of protection of human health and the environment from chemical substances.

OPHIT Co., Ltd substances management system follow and complies with the current revision of the REACH Regulation on the substances as identified by ECHA(European Chemical Agency).

OPHIT Co., Ltd products are considered articles as defined in REACH Article 3(3). These products/articles under normal and reasonable conditions of use do not have intended release of substances. Therefore the requirement in REACH Article 7(1)(b) for registration of substances contained in these products/articles does not apply.

OPHIT Co., Ltd products/articles, do not contain **Substances of very High Concern** or if there **SVHC** in the product/article, the content is less than the 0.1%(wt/wt) as defined by REACH Article 57, Annex XIV, Directive 67/548/EEC. Therefore the requirement in REACH Article 7(2) to notify ECHA if a product/article contains more than 0.1% wt/wt of an SVHC and tonnage exceeding 1 tone per importer per year is not applicable.

OPHIT's European operations do not manufacture or import chemicals, therefore OPHIT Co., Ltd has no obligation to resister substances.

Jong-Kook, Moon

Jung-Kook, Moon

President

OPHIT Co., Ltd ACCEPTS NO DUTY TO NOTIFY USERS OF THIS OF DECLARATION OF UPDATES OR CHANGES TO THIS DECLARATION.