



EMC TEST REPORT For VCCI

Test Report No. : KES-EM-23T0216
Date of Issue : Mar. 10, 2023
Product name : NVR
Model/Type No. : QRN-830S
Variant Model : -
Applicant : Hanwha Vision Co., Ltd
Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, Republic of Korea
Manufacturer : 1. HANWHA VISION VIETNAM COMPANY LIMITED
2. D-TECH CO.,LTD.
Manufacturer Address : 1. Lot O-2, Que Vo Industrial Zone extended area,
Nam Son commune, Bac Ninh city, Bac Ninh province, Vietnam
2. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi- do,
Korea (Suwon Industrial Complex)
Date of Receipt : Feb. 20, 2023
Test date : Mar. 02, 2023 ~ Mar. 08, 2023
Test Results : ☒ In Compliance ☐ Not in Compliance

Tested by

Min Seong, Kim
EMC Test Engineer

Reviewed by

Dong Hun, Jang
EMC Technical Manager

This test report is not related to KS Q ISO/IEC 17025 and KOLAS.



KES Co., Ltd.

3701, 40, Simin-daero 365beon-gil,
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
www.kes.co.kr

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REPORT REVISION HISTORY

Date	Test Report No.	Revision History
Mar. 10, 2023	KES-EM-23T0216	Issued

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1.0 General Product Description

Main Specifications of EUT are:

Display		
Network camera	Inputs	Max. 8CH
	Resolution	8MP ~ CIF
	Protocols	SUNAPI, ONVIF
Decoding	Local Display	HDMI :3840x2160(30Hz)
	Multi Screen Display	[Single Monitor] Dynamic layout [Web] 1/ 2H/ 2V/ 3V/ 4/ 6/ 8/ 9
	Resolution	[Local Monitor] 8M(60fps), 1080p(240fps), 720P(240fps), D1(240fps)
Performance		
Operating System	Embedded	Linux
Record	Compression	H.265, H.264, MJPEG
	Recording Bandwidth	Max. 80Mbps
	Resolution	8MP ~ CIF
	Mode	Normal, Dual Stream, Schedule(Continuous/Event), Event (Pre/Post), Bookmark
	Event Trigger	Alarm Input, Video Loss, Camera Event(Sensor, MD, Video Analytics, Defocus, Audio), Dynamic Event, User Event
	Event Action	e-Mail, Event Push, PTZ Preset, Alarm Out, Buzzer, Monitor Out, FTP, SUNAPI Command, Shutdown
Search & Play	Playback Bandwidth	Max. 32Mbps
	User	Max. 4 Users (Local 1, Remote 3)
	Simultaneous playback	Max. 32CH(Local 8CH, Remote 8CH per user)
	Fisheye Dewarping	CMS
	Mode	Date & Time(Calendar), Event list, Text Search, Smart Search
	Resolution	CIF ~ 8MP
	Playback Control	Fast/Slow Forward / Backward, Move one step Up / Down
Storage	Supported HDD	Up to 6TB
	HDD Slot	SATA 1ea(Max. 6TB)
Backup	File backup	BU/Exe/AVI(GUI), JPG/AVI(Network)
	Function	Multi channel(Up to 8CH) Play, Date-Time/Title display
Network		
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Server, Client), SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Server, Client)	
DDNS	Hanwha DDNS	
Transmission Bandwidth	Max. 80Mbps	
Audio	Input/Output	8 CH(network)
	Compression	G.711, G.726, AAC(16/48KHz)
	Audio Communication	2-Way
Max Remote Users	Search(3), Live Unicast(10), Multicast(20)	
Security	IP address filtering, User access Log, 802.1x, Encryption Device certificate(Hanwha Techwin Root CA), Signed firmware	
Web viewer	Supported OS	Windows 10, macOS 11
	Supported browser	Google Chrome, Microsoft Edge, Mac Safari

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Functions

Camera Setup	Register	Auto, Manual
	Item	IP address, Add profile edit, Bitrate, Compression, GOP, Quality, Camera MD setup (4, 8 point polygon) Camera video setup (Simple focus, Brightness/Contrast, Flip/Mirror, IRIS, WDR, D&N, SSNR, Shutter, SSDR, DIS), Fisheye Dewarping Mode, Hallway View Setup, Camera Webpage
PTZ	Control	Via GUI, Webviewer
	Preset	300 Presets
Smart phone	Support Model	IOS, Android
	Protocol Support	RTP, RTSP, HTTP, CGI(SUNAPI)
	Control	Live: Multi-Profile Support, Multi Channel Playback
	Max. Remote Users	Search(3), Live Unicast(10)
Redundancy	Failover	N+1
	ARB	Support
Easy configuration		P2P(QR code)

Interface

Front	Indicator	Power, Record, Network
Storage		OK
Reset		Support
HDMI		1EA
Ethernet		PoE RJ-45 8EA (LAN, 10/100), RJ-45 1ea (LAN/WAN 1Gbps)
USB		2EA(Front 2 x USB 2.0)
Power inlet		DC Adaptor

System

Log	Log List	Max. 100,000 (System Log, Event Log each)
System Control		Mouse, Keyboard, Web
Language		English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai, Vietnamese

Environmental

Operating Temperature	0°C to +40°C(32°F to 104°F)
Operating Humidity	20% ~ 85% RH

Electrical

Power Input	54VDC / 1.55A
Power Consumption	Max 84W (287 BTU with 1HDD, PoE ON)
PoE Budget	65W

Mechanical

Color / Material	Black / Metal
Dimension (WxHxD)	300 x 47.6 x 238.9 mm (11.8 x 1.9 x 9.4 inch)
Weight	1.32Kg (2.91 lb)

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1.1 Test Voltage & Frequency

Unless indicated otherwise on the individual data sheet or test results, the test voltage and frequency was as indicated below.

☒ AC 100 V, 60 Hz

1.2 Variant Model Differences

Not applicable

1.3 Device Modifications

Not applicable

1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
NVR	QRN-830S	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT
AC/DC Adapter	FSP090-AWAN3	-	Zhonghan Electronics(Shenzhen) Co., Ltd.	-
Mouse	MOKJUO	-	Primax Electronics Ltd.	-

1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
Camera	LND-6070R	-	HANWHA VISION VIETNAM COMPANY LIMITED	-
Laptop	Latitude 5300	8C47BE45C060	DELL INC.	-
Laptop Adapter	HA65NM130	-	Chicony Power Technology(Suzhou)Co.,Ltd.	-
Monitor	24M47VQ	-	LG	-
Monitor Adapter	LCAP26-E	-	Genmao Electronics (Suzhou) Co., Ltd	-
HDD	810051	-	WESTERN DIGITAL TECHNOLOGIES, INC.	2 TB
USB Memory	-	-	Sandisk	32 GB

1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NVR (EUT)	DC Jack	AC/DC Adapter (EUT)	DC Jack	1.6	U
	USB	Mouse (EUT)	USB	1.4	U
	RJ-45 (PoE)	Camera	RJ-45 (PoE)	10.0	U
	RJ-45 (LAN)	Laptop	RJ-45 (LAN)	4.0	U
	HDMI	Monitor	HDMI	1.5	S
	SATA	HDD	SATA	-	-
	USB	USB Memory	USB	-	-
	Ground	Earth	Ground	1.6	-
Laptop	DC Jack	Laptop Adapter	DC Jack	2.0	U
Monitor	DC Jack	Monitor Adapter	DC Jack	2.0	U

* Unshielded = U, Shielded = S

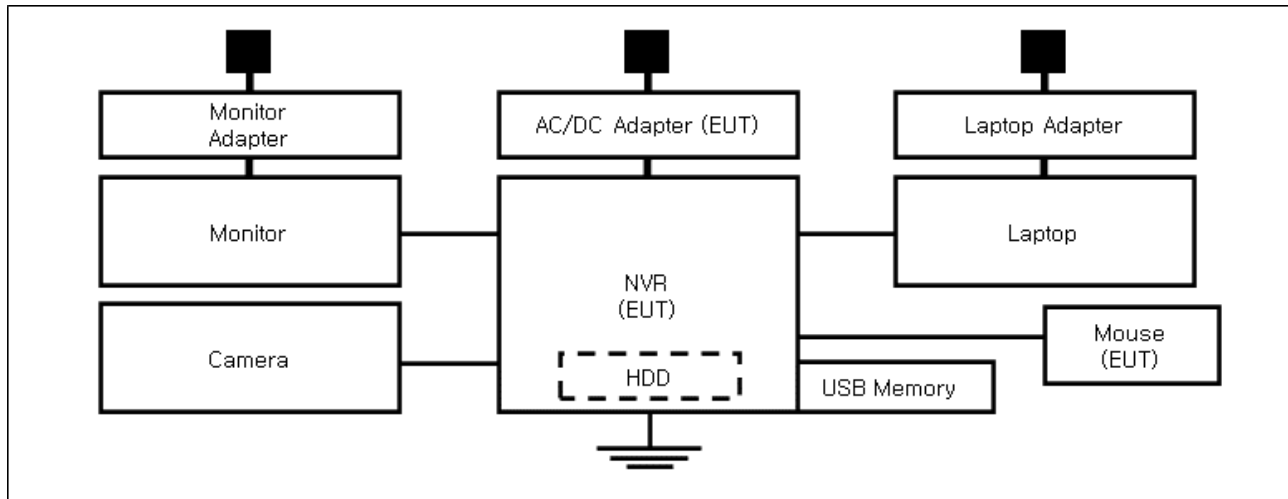
1.7 EUT Operating Mode(s)

Test mode	operating
Operating	- Check that the video from the cameras are displayed normally on the monitor. - Connect to the web viewer on your laptop and check if the video from the cameras are displayed normally. - Network ping test on the laptop - Check the storage device for the recorded screen after the test.

EUT Test operating S/W		
Name	Version	Manufacture Company
Web Viewer	-	Hanwha Vision Co., Ltd

1.8 Configuration

■ AC Main
 □ DC Main



1.9 Remarks when standards applied

N/A

1.10 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.

1.11 Test Facility

The measurement facility is located at 473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Korea, Republic of. The sites are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-4:2019

1.12 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA	RRA	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KR0100
International	KOLAS	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KT489
USA	FCC	3 m & 10 m Semi-Anechoic Chamber Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	ISED	3 m & 10 m Semi-Anechoic Chamber and Conducted test site	 23298
JAPAN	VCCI	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)	 C-20136, T-20137, R-20181, G-20176
Europe	TÜV SÜD	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 CARAT 001633 0004



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2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ VCCI-CISPR 32:2016

☒ Class A

☐ Class B

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2.1 Conducted Emissions Mains Power Ports

Test Date
Mar. 07, 2023Test Location
Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EMC32	R & S	9.12.00	-
☒	EMI TEST RECEIVER	ESR3	R & S	101783	11, 11, 2023
☒	LISN	ENV216	R & S	101787	11, 10, 2023
☒	LISN	ESH2-Z5	R & S	100450	11, 10, 2023
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 10, 2023

Test Conditions

Temperature: (24,3 ± 0,2) °C
Relative Humidity: (43,0 ± 0,4) % R.H.Frequency Range of Measurement
150 kHz to 30 MHzInstrument Settings
IF Band Width: 9 kHzTest Results
The requirements are:☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

Remarks

See Appendix A for test data.

2.2 Conducted Emissions at Telecommunication Ports

Test Date
Mar. 07, 2023

Test Location
Electro wave Shieldroom #6

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EMC32	R & S	9.12.00	-
☒	EMI TEST RECEIVER	ESR3	R & S	101783	11, 11, 2023
☒	LISN	ENV216	R & S	101787	11, 10, 2023
☒	LISN	ESH2-Z5	R & S	100450	11, 10, 2023
☒	PULSE LIMITER	ESH3-Z2	R & S	101915	11, 10, 2023
☒	8-WIRE ISN CAT3,5	ENY81	R & S	100174	11, 22, 2023
☒	8-WIRE ISN CAT6	ENY81-CAT6	R & S	101665	11, 22, 2023
☐	CDN	CDNS502A	TESEQ	40431	11, 10, 2023

Test Conditions

Temperature: (24,3 ± 0,2) °C
Relative Humidity: (43,0 ± 0,4) % R.H.

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Results

The requirements are:

☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

Remarks

- See Appendix A for test data.
- For Ethernet interfaces, measurements are required at the highest data rate supported by the interface.

2.3 Radiated Electric Field Emissions(Below 1 GHz)

Test Date
Mar. 08, 2023Test Location
☐ OPEN AREA TEST SITE #2 ☒ SEMI ANECHOIC CHAMBER #4(10 m)

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
☒	EMI TEST RECEIVER	ESU26	R & S	100551	03, 31, 2023
☒	AMPLIFIER	SCU 01	R & S	100603	11, 10, 2023
☒	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	11, 17, 2024
☒	ATTENUATOR	8491A	HP	32173	03, 03, 2024

Test Conditions

Temperature: (23,6 ± 0,1) °C
Relative Humidity: (43,2 ± 0,3) % R.H.

Frequency Range of Measurement

30 MHz to 1 GHz

Instrument Settings

IF Band Width: 120 kHz

Test Results

The requirements are:

☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

Remarks

See Appendix A for test data.

2.4 Radiated Electric Field Emissions(Above 1 GHz)

Test Date

Mar. 02, 2023

Test Location

SEMI ANECHOIC CHAMBER #3

Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
☒	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
☒	EMI TEST RECEIVER	ESR7	R & S	101190	08, 01, 2023
☒	PREAMPLIFIER	8449B	AGILENT	3008A01967	04, 01, 2023
☒	ATTENUATOR	8491A	HP	35496	03, 08, 2023
☒	DOUBLE RIDGED HORN ANTENNA	SAS-571	A.H.SYSTEM,INC	781	03, 03, 2024

Test Conditions

Temperature: (23,6 ± 0,1) °C

Relative Humidity: (42,7 ± 0,3) % R.H.

Frequency Range of Measurement

1 GHz to 6 GHz

Instrument Settings

IF Band Width: 1 MHz

Test Results

The requirements are:

- ☒ PASS
☐ NOT PASS
☐ NOT APPLICABLE

Remarks

See Appendix A for test data.

APPENDIX A – TEST DATA

Conducted Emissions at Mains Power Ports

HOT LINE

Common Information

Test Description:

Model No.:

Phase:

Mode:

Operator Name:

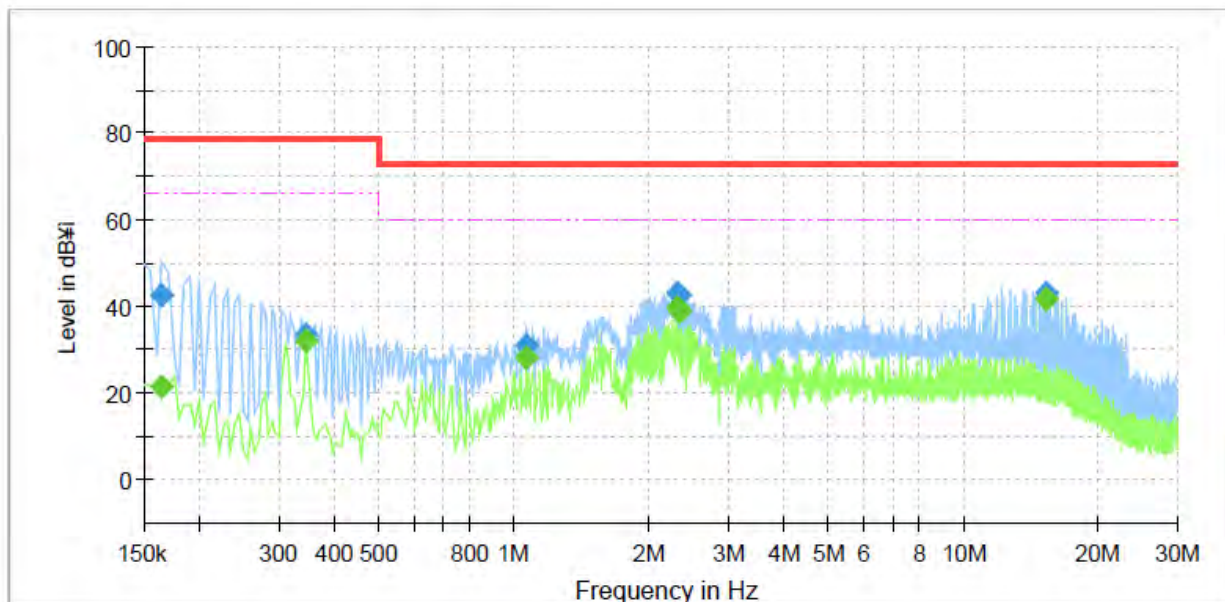
Conducted Emission

QRN-830S

L1

-

KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.165000	---	21.25	66.00	44.75	1000.0	9.000	L1	19.5
0.165000	42.51	---	79.00	36.49	1000.0	9.000	L1	19.5
0.345000	---	31.90	66.00	34.10	1000.0	9.000	L1	19.6
0.345000	33.46	---	79.00	45.54	1000.0	9.000	L1	19.6
1.070000	---	28.17	60.00	31.83	1000.0	9.000	L1	20.2
1.070000	31.16	---	73.00	41.84	1000.0	9.000	L1	20.2
2.300000	---	39.49	60.00	20.51	1000.0	9.000	L1	20.3
2.300000	43.25	---	73.00	29.75	1000.0	9.000	L1	20.3
2.330000	---	38.64	60.00	21.36	1000.0	9.000	L1	20.3
2.330000	42.64	---	73.00	30.36	1000.0	9.000	L1	20.3
15.385000	---	41.61	60.00	18.39	1000.0	9.000	L1	19.9
15.385000	42.95	---	73.00	30.05	1000.0	9.000	L1	19.9

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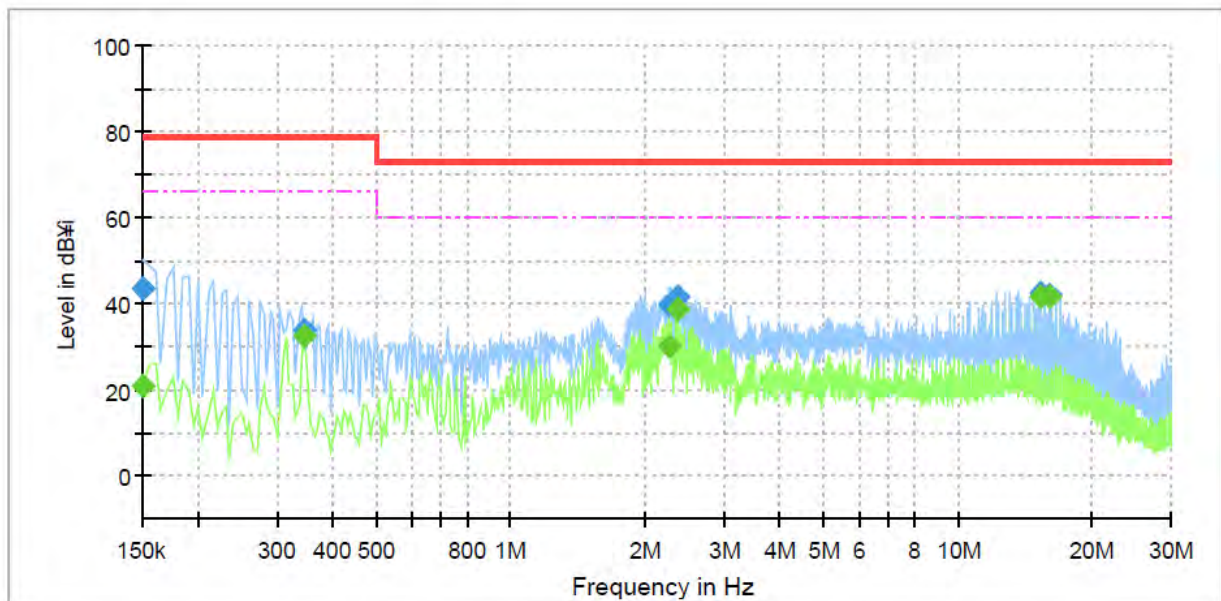
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NEUTRAL LINE

Common Information

Test Description:	Conducted Emission
Model No.:	QRN-830S
Phase:	N
Mode:	-
Operator Name:	KES



Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	21.10	66.00	44.90	1000.0	9.000	N	19.4
0.150000	43.62	---	79.00	35.38	1000.0	9.000	N	19.4
0.345000	---	32.56	66.00	33.44	1000.0	9.000	N	19.6
0.345000	33.88	---	79.00	45.12	1000.0	9.000	N	19.6
2.260000	---	30.08	60.00	29.92	1000.0	9.000	N	20.3
2.260000	39.69	---	73.00	33.31	1000.0	9.000	N	20.3
2.365000	---	38.61	60.00	21.39	1000.0	9.000	N	20.3
2.365000	41.46	---	73.00	31.54	1000.0	9.000	N	20.3
15.385000	---	41.61	60.00	18.39	1000.0	9.000	N	19.9
15.385000	42.76	---	73.00	30.24	1000.0	9.000	N	19.9
16.030000	---	41.58	60.00	18.42	1000.0	9.000	N	19.9
16.030000	42.21	---	73.00	30.79	1000.0	9.000	N	19.9

◆ Calculation

QuasiPeak[dBuV] / CAverage [dBuV] = Reading Value[dBuV] + Corr. [dB]

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

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Conducted Emissions at Telecommunication Ports

■ LAN

[1 000 Mbps]

Common Information

Test Description:

Telecommunication Emission

Model No.:

QRN-830S

Mode :

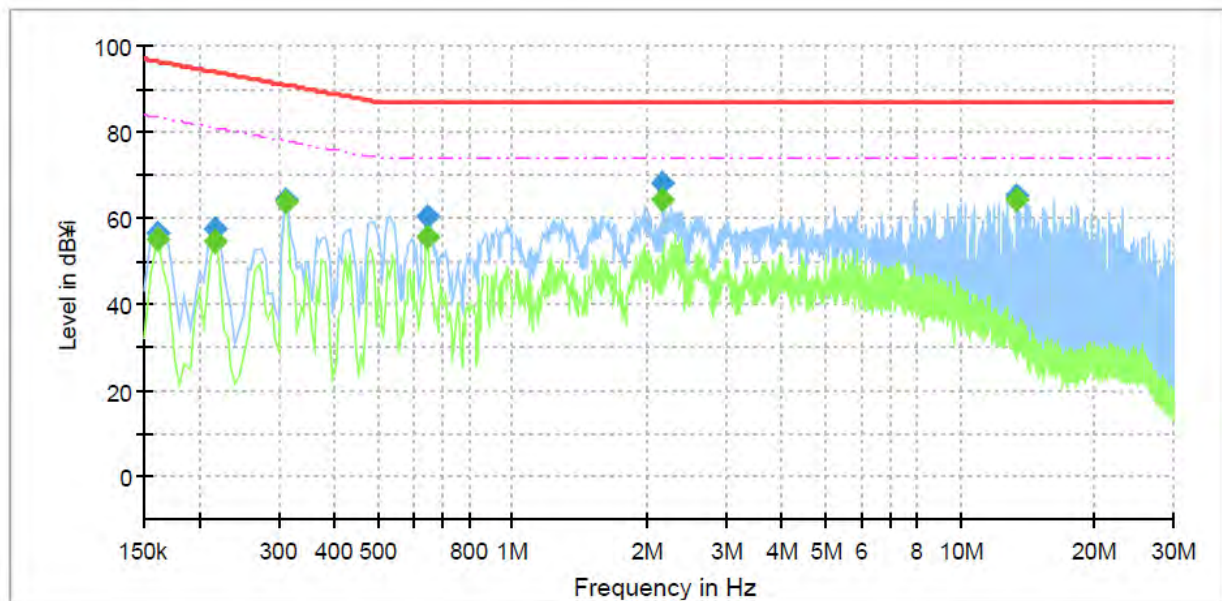
LAN

Speed :

1 000 Mbps

Operator Name:

KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.160000	---	54.98	83.46	28.48	1000.0	9.000	Single Line	19.8
0.160000	56.47	---	96.46	39.99	1000.0	9.000	Single Line	19.8
0.215000	---	54.83	81.01	26.18	1000.0	9.000	Single Line	19.7
0.215000	57.47	---	94.01	36.54	1000.0	9.000	Single Line	19.7
0.310000	---	63.68	77.97	14.29	1000.0	9.000	Single Line	19.6
0.310000	64.42	---	90.97	26.55	1000.0	9.000	Single Line	19.6
0.645000	---	55.80	74.00	18.20	1000.0	9.000	Single Line	19.8
0.645000	60.30	---	87.00	26.70	1000.0	9.000	Single Line	19.8
2.170000	---	64.39	74.00	9.61	1000.0	9.000	Single Line	20.1
2.170000	68.17	---	87.00	18.83	1000.0	9.000	Single Line	20.1
13.420000	---	64.30	74.00	9.70	1000.0	9.000	Single Line	19.6
13.420000	65.32	---	87.00	21.68	1000.0	9.000	Single Line	19.6

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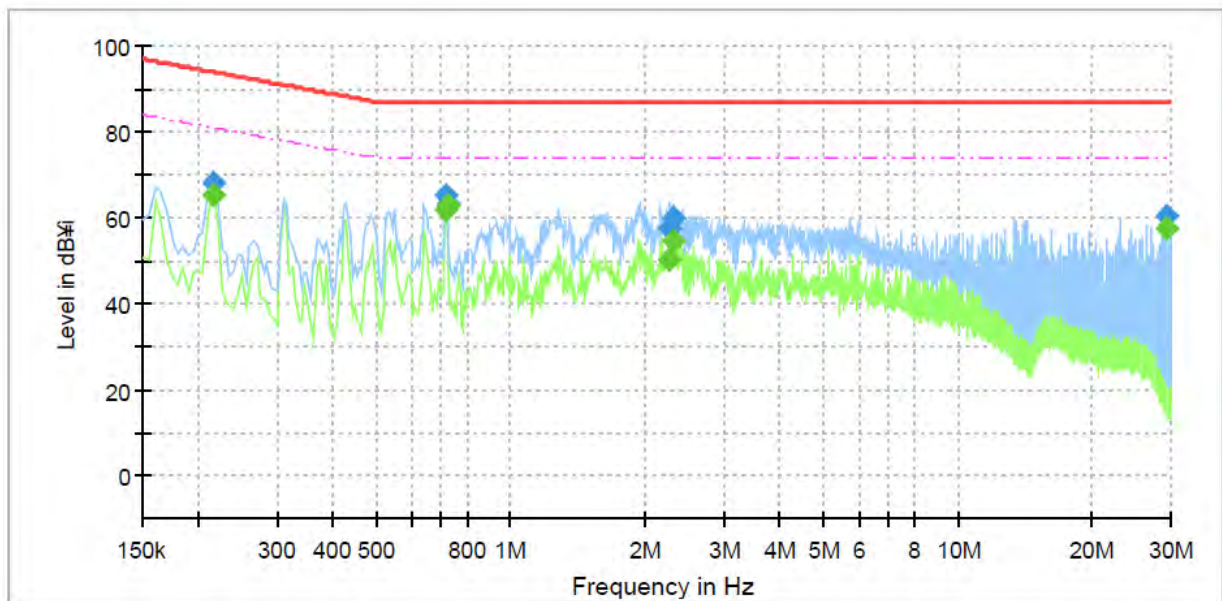
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■ PoE

[100 Mbps]

Common Information

Test Description:	Telecommunication Emission
Model No.:	QRN-830S
Mode :	PoE
Speed :	100 Mbps
Operator Name:	KES



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.215000	---	65.04	81.01	15.97	1000.0	9.000	Single Line	19.7
0.215000	67.99	---	94.01	26.02	1000.0	9.000	Single Line	19.7
0.715000	---	61.93	74.00	12.07	1000.0	9.000	Single Line	19.9
0.715000	65.31	---	87.00	21.69	1000.0	9.000	Single Line	19.9
0.720000	---	62.79	74.00	11.21	1000.0	9.000	Single Line	19.9
0.720000	63.23	---	87.00	23.77	1000.0	9.000	Single Line	19.9
2.265000	---	50.29	74.00	23.71	1000.0	9.000	Single Line	20.1
2.265000	57.49	---	87.00	29.51	1000.0	9.000	Single Line	20.1
2.305000	---	54.51	74.00	19.49	1000.0	9.000	Single Line	20.1
2.305000	59.86	---	87.00	27.14	1000.0	9.000	Single Line	20.1
29.235000	---	57.32	74.00	16.68	1000.0	9.000	Single Line	20.4
29.235000	60.28	---	87.00	26.72	1000.0	9.000	Single Line	20.4

◆ Calculation

QuasiPeak[dBuV] / CAverage [dBuV] = Reading Value[dBuV] + Corr. [dB]

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

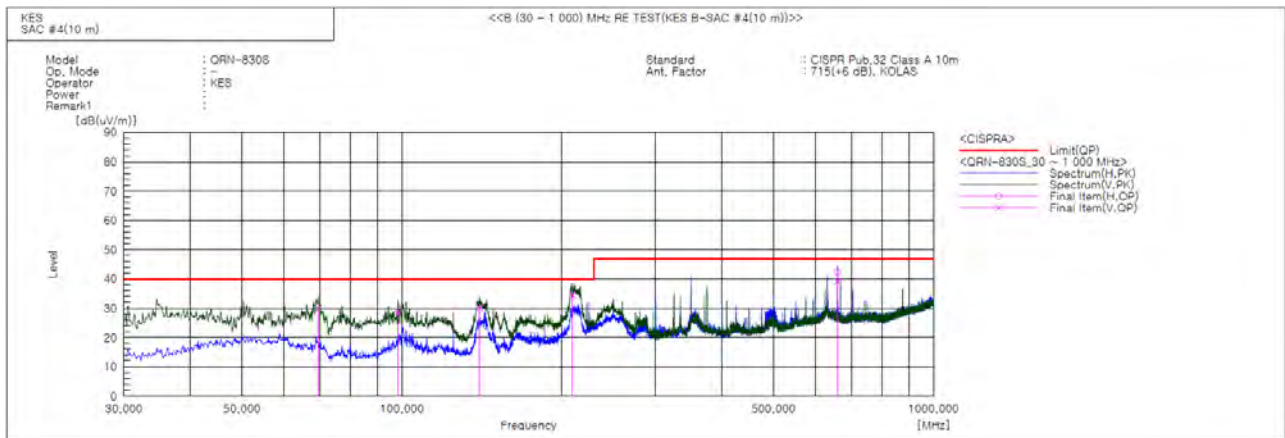
Corr. : Correction values (ISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

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Radiated Electric Field Emissions(Below 1 GHz)



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	69.649	V	54.5	-24.6	29.9	40.0	10.1	132.0	75.0	
2	98.385	V	51.3	-22.5	28.8	40.0	11.2	128.0	250.0	
3	139.974	V	55.6	-25.4	30.2	40.0	9.8	100.0	60.0	
4	209.086	V	55.0	-20.5	34.5	40.0	5.5	100.0	192.0	
5	660.015	H	50.3	-7.9	42.4	47.0	4.6	330.0	62.0	
6	660.015	V	47.1	-7.9	39.2	47.0	7.8	100.0	252.0	

◆ Calculation

Corrected Amplitude [dBuV] = Amplitude[dBuV] + Correction Factor [dB]

Corrected Amplitude : The Final Value, Amplitude : Reading Value,

Correction Factor : ANT FACTOR + Cable loss



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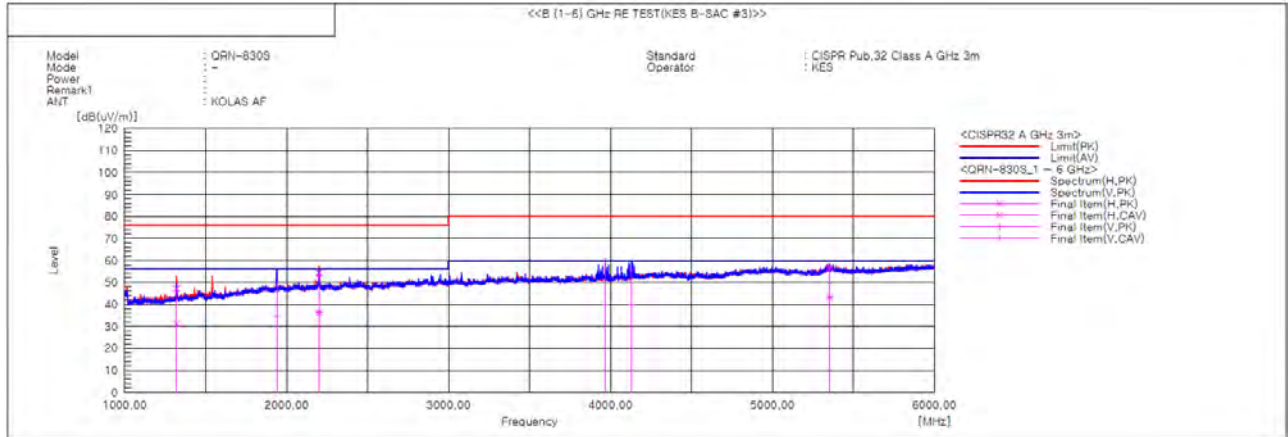
3701, 40, Simin-daero 365beon-gil,
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
www.kes.co.kr

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Radiated Electric Field Emissions(Above 1 GHz)



Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1320.046	H	48.9	33.0	-1.7	47.2	31.3	76.0	56.0	28.8	24.7	100.0	123.1	
2	1939.472	V	44.6	30.9	4.1	48.7	35.0	76.0	56.0	27.3	21.0	100.0	76.1	
3	2199.982	V	48.0	31.6	4.8	52.8	36.4	76.0	56.0	23.2	19.6	100.0	65.9	
4	2199.990	H	49.7	31.6	4.8	54.5	36.4	76.0	56.0	21.5	19.6	100.0	105.0	
5	3968.399	V	49.5	29.2	10.5	60.0	39.7	80.0	60.0	20.0	20.3	100.0	354.9	
6	4130.825	V	45.1	28.8	11.0	56.1	39.8	80.0	60.0	23.9	20.2	100.0	174.7	
7	5354.274	V	41.8	28.4	14.8	56.6	43.2	80.0	60.0	23.4	16.8	100.0	57.9	
8	5354.290	H	41.8	28.4	14.8	56.6	43.2	80.0	60.0	23.4	16.8	100.0	239.0	

◆ Calculation

Result(PK/CAV) [dB(μ V/m)] = (Reading(PK/CAV)[dB(μ V)] + c.f[dB(1/m)])

Margin(PK/CAV)[dB] = Limit[dB(μ V/m)] - Result(PK/CAV) [dB(μ V/m)]

Reading(PK/CAV) : Reading value, Result(PK/CAV) : Reading value + Factor value

Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value

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Test Setup Photos and Configuration

Conducted Emissions at Mains Power Ports



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Conducted Emissions at Telecommunication Ports



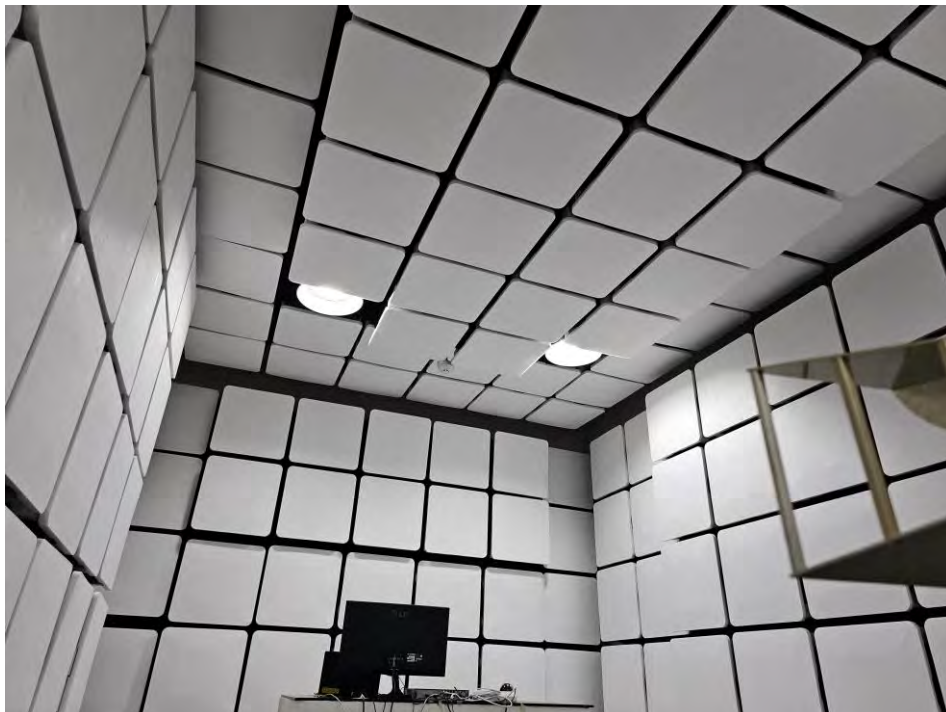
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Radiated Electric Field Emissions(Below 1 GHz)



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Radiated Electric Field Emissions(Above 1 GHz)



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EUT External Photographs

(Top)



(Bottom)



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EUT Internal Photographs

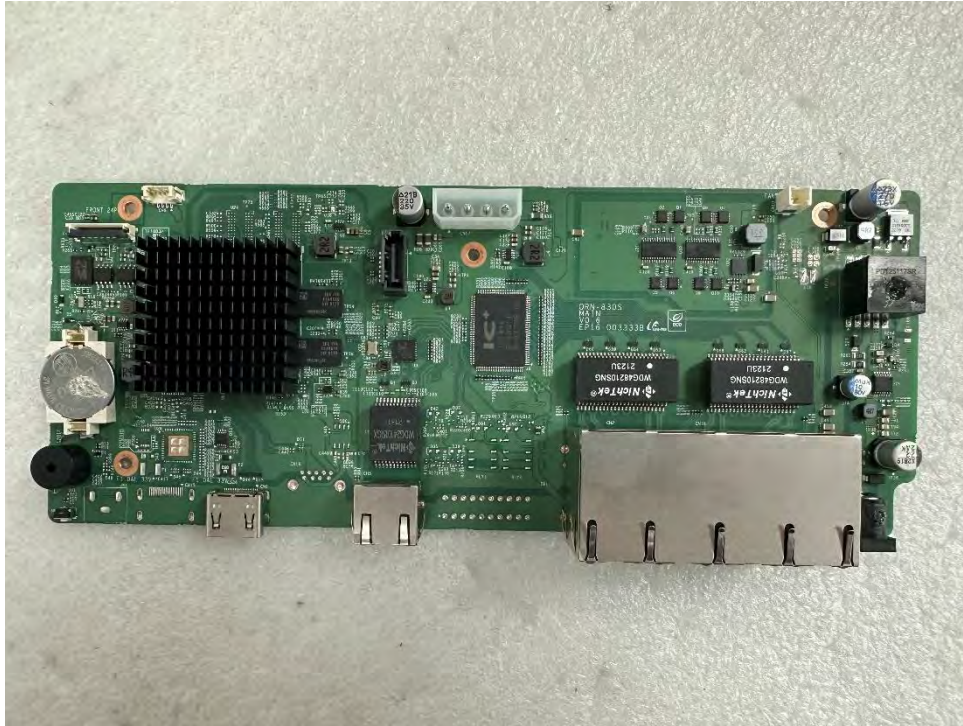
(Internal View)



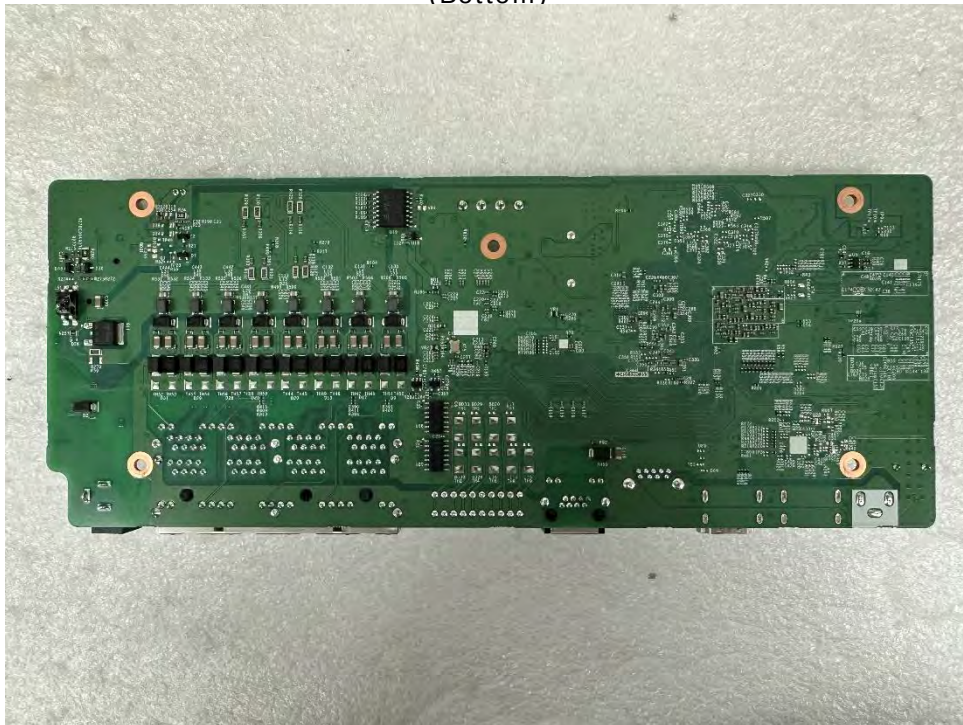
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EUT Internal View – Main Board

(Top)



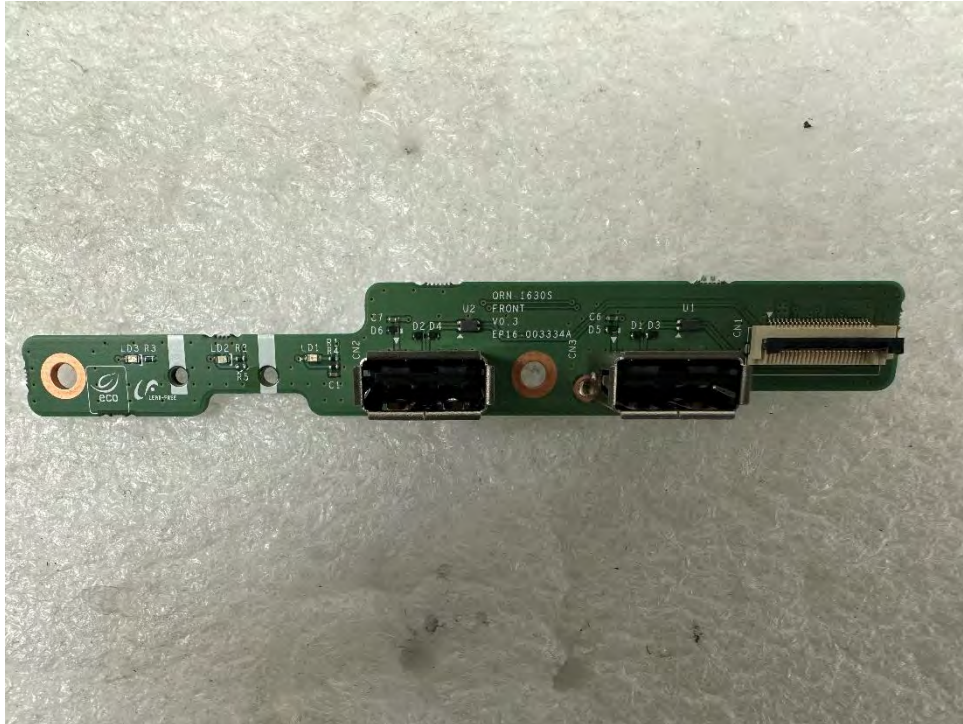
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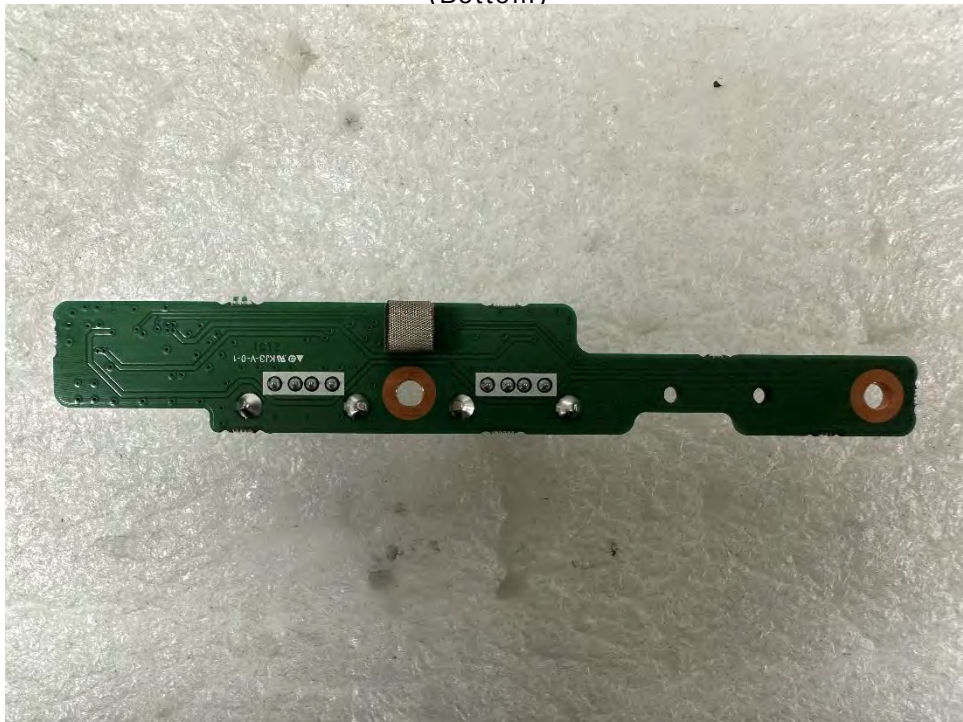
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EUT Internal View – Sub Board

(Top)



(Bottom)



EUT Internal View – Mouse

(Top)



(Bottom)



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EUT Internal View – Adapter

(Top)



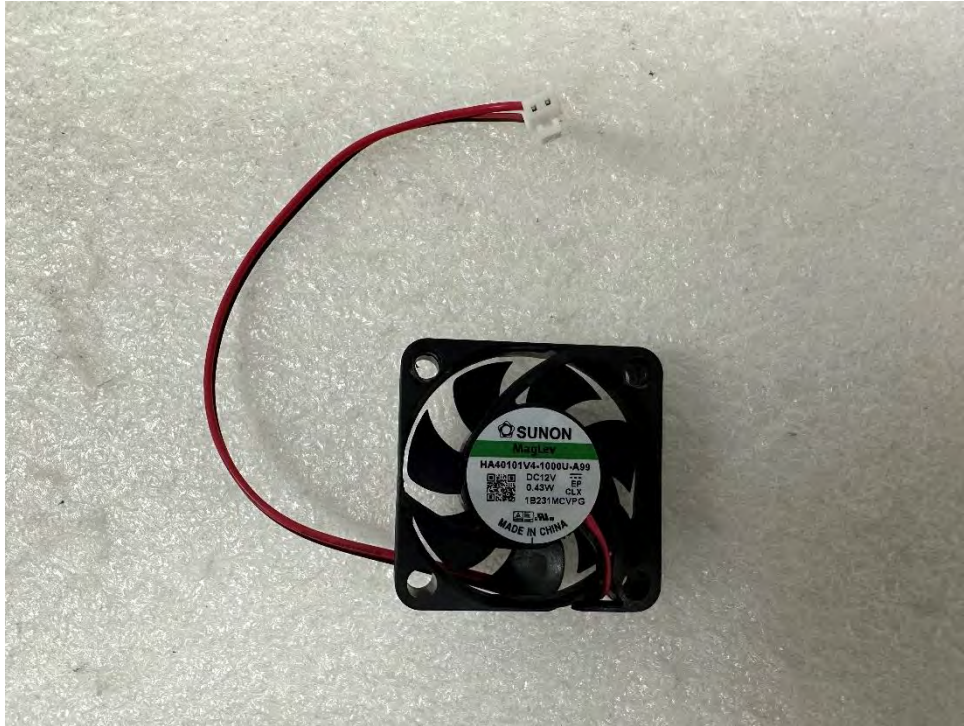
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EUT Internal View – Fan

(Top)

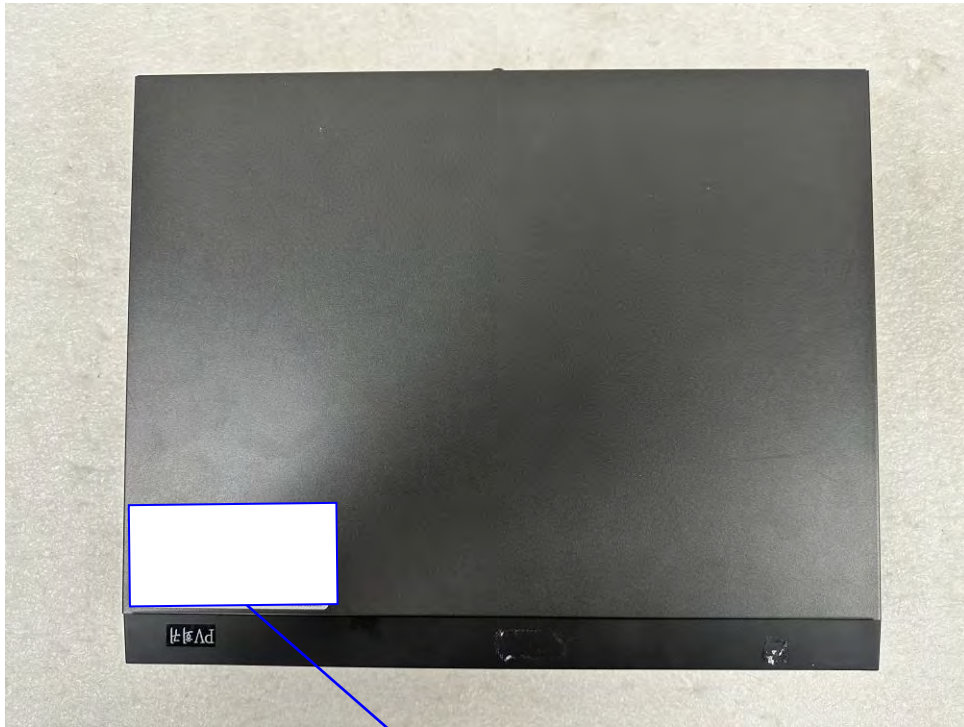


(Bottom)



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Label Photographs



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VCCI-A