



LCIE SUD EST
Laboratoire de Moirans
Z.I. Centr'Alp
170, Rue de Chatagnon
38430 MOIRANS - FRANCE

GENERAL INFORMATION

FCCID: IGTIQOYATALK

1.1. Product description



Key points

- Large number of built-in connectivities: 2 Ethernet, WiFi, 2x 3G/LTE/4G
- Up to 8H autonomy achieved by two independent batteries
- Quick access to all relevant on-field settings



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Technical specifications



Usages

Remote live operations requiring high reliability transmission & broadcast audio quality

▶ Interviews

▶ Sports commentaries

▶ Events

▶ Talk shows

AUDIO

3 Mic inputs, Microphone / Line level adjustment
48 V phantom power
4 headphone outputs, individual mix bus on each output
1 analog or AES/EBU stereo input Line level
1 mono or stereo program on independent IP connections
2 Talkback channels for users 1 and 2
11 input / 10 output embedded mixer

CONNECTIVITY

2 Gigabit Ethernet ports for EBU/ACIP and AES67 audio streams
2 integrated 4G / LTE modules, approved in Europe, USA and Asia
1 integrated dual band wifi / bluetooth module
3 GPIOs controllable by GUI
2 USB A ports for files
1 USB C port for streaming audio to PC

ENCODING AND STREAMING

Dual streaming / Configurable FEC
Encoding : G711/G722, MPEG-1/2 Layer II
MPEG-4 AAC-LC, AAC-LD/ELD, HE-AACv1/v2, Opus

GENERAL

Lockable external power supply 12-24 V DC
LxWxH: 200 x 216 x 90 mm (7 7/8 x 8 5/8 x 3 3/4 in)
Weight : 2,3 Kg (5 lb) incl. 1 battery



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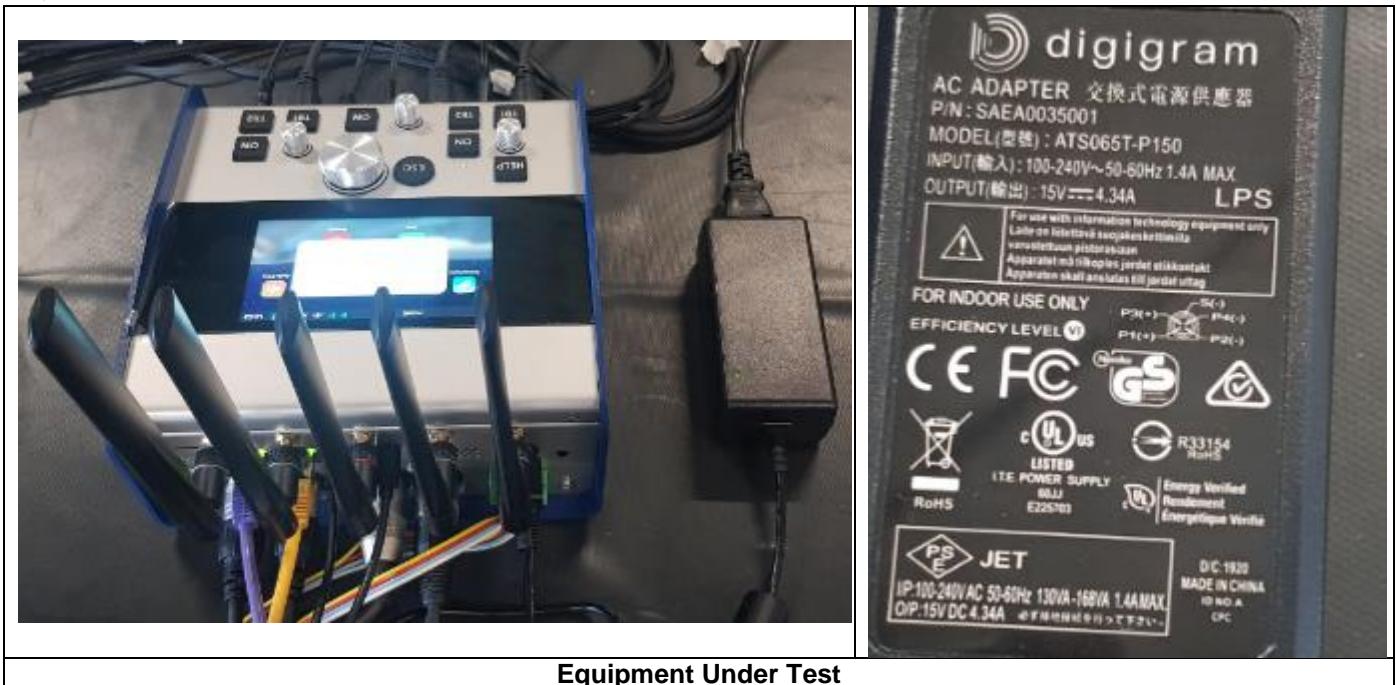
1.2. Tested System Details

Hardware identification (EUT and auxiliaries):

Equipment under test (EUT):

IQOYA TALK

Serial Number: 270100020074



Equipment Under Test

Power supply:

Name	Type	Rating	Reference / Sn	Comments
Supply1	AC	100-240V /50Hz-60Hz	ATS065T-P150	Configuration1
Supply2	Battery	7.50V 6400mAh 48.0Wh	RRC2057	Configuration2

Voltage table used for conducted emission:

Type	Measurement performed:	
<input checked="" type="checkbox"/> AC	<input checked="" type="checkbox"/> 120VAC/60Hz	<input checked="" type="checkbox"/> 240VAC/50Hz
<input type="checkbox"/> DC	<input type="checkbox"/> 120VAC/60Hz (Supply auxiliary)	<input type="checkbox"/> 240VAC/50Hz (Supply auxiliary)
<input type="checkbox"/> USB (Laptop auxiliary)	<input type="checkbox"/> 120VAC/60Hz (Laptop auxiliary)	<input type="checkbox"/> 240VAC/50Hz(Laptop auxiliary)

Voltage table used for radiated emission:

Type	Measurement performed:	
<input checked="" type="checkbox"/> AC	<input type="checkbox"/> 120VAC/60Hz	<input checked="" type="checkbox"/> 240VAC/50Hz
<input type="checkbox"/> DC	<input type="checkbox"/> 120VAC/60Hz (Supply auxiliary)	<input type="checkbox"/> 240VAC/50Hz (Supply auxiliary)
<input type="checkbox"/> USB (Laptop auxiliary)	<input type="checkbox"/> 120VAC/60Hz (Laptop auxiliary)	<input type="checkbox"/> 240VAC/50Hz(Laptop auxiliary)



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Inputs/outputs - Cable:

Access	Type	Length used (m)	Declared <3m	Shielded	Under test	Comments
Supply1	L+N+PE	2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	tested
Access1	5 external antennas	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	not tested
Access2	2 USBA - outputs	1.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	not tested
Access 3	1x USBc outputs	3				
Access 4	2 Ethernet outputs	10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ethernet 1 tested
Access 5	1 relay output	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	not tested
Access 6	2 analog or digital outputs	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	not tested
Access 7	4 headphone inputs	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	not tested
Access 8	3 microphone inputs	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	not tested

Auxiliary equipment used during test:

Type	Reference	Sn	Comments
laptop	HP EliteBook 8530p	2CE922FM71	/
4 headphone	/	/	/
Load box	/	/	/
Audio sources	IQOYA X/LINK-ST	VB2331A0101	/

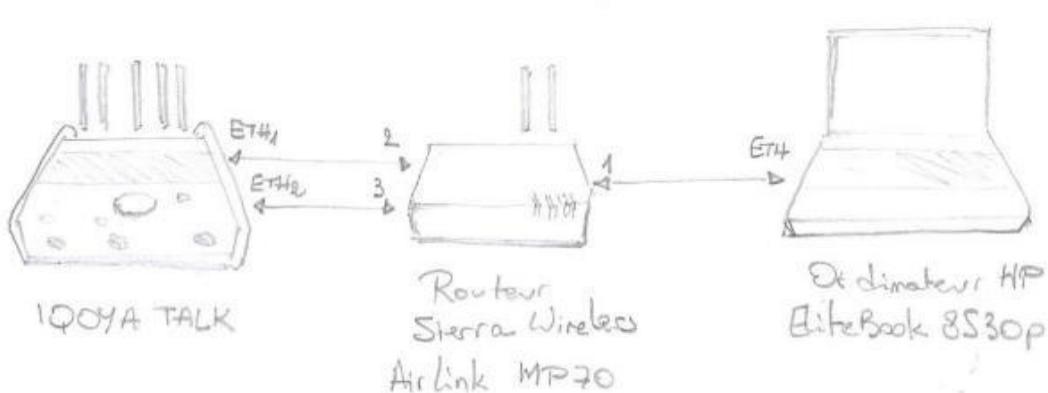
EUT configuration – Running mode

Hardware information			
Highest internal frequency (PLL, Quartz, Clock, Microprocessor...):	F _{Highest} :	800	MHz
Sensitive frequencies: (in addition to stepped frequencies for 61000-4-3 and 61000-4-6)	None declared by provider		
Firmware (if applicable):	V. :	v01.05c001	
Software (if applicable):	V. :	NA	
Time necessary for the EUT to be exercised and to respond:	Dwell:	2	s

Test configuration

Radiated emission and Conducted emission

- First putty connection:
 - cd /home/root/CEM/
 - ./CEM.sh –lan





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1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 or/and ANSI C63.10, FCC Part 15 SubPart 15B.

Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

1.4. Test facility

Tests have been performed: March 4th to 10th, 2020

This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4 or/and ANSI C63.10.

This test facility has also been accredited by COFRAC (French accreditation authority for European Union test lab accreditation organization) according to NF EN ISO/IEC 17025, as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55032/CISPR32 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.