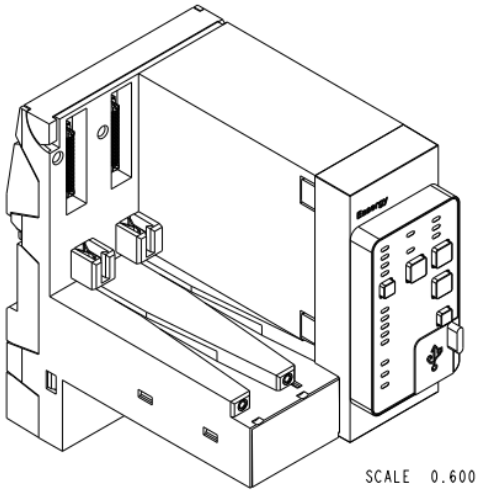
LCIE SUD EST
Laboratoire de Moirans
Z.I. Centr'Alp
170, Rue de Chatagnon
38430 MOIRANS - FRANCE

GENERAL INFORMATION

FCCID: **2AHHK-EASERGYHU250**

1.1. Product description

The Easergy HU250 is a communication gateway for the Easergy T300 offer range. This gateway offers the controlling of MV switch controllers through different communication means: wired and wireless. The Easergy HU250 embeds a wireless communication which is the Wifi. The Wifi communication is ensured by a Texas Instrument Wifi module: **WL1805 with the following**.



The commercial and technical (internal) references of the products are :

Product description	HU250 Basic Head Unit gateway
Commercial reference	EMS59000
Technical Reference	NHA77914

1.2. Product drawing and composition

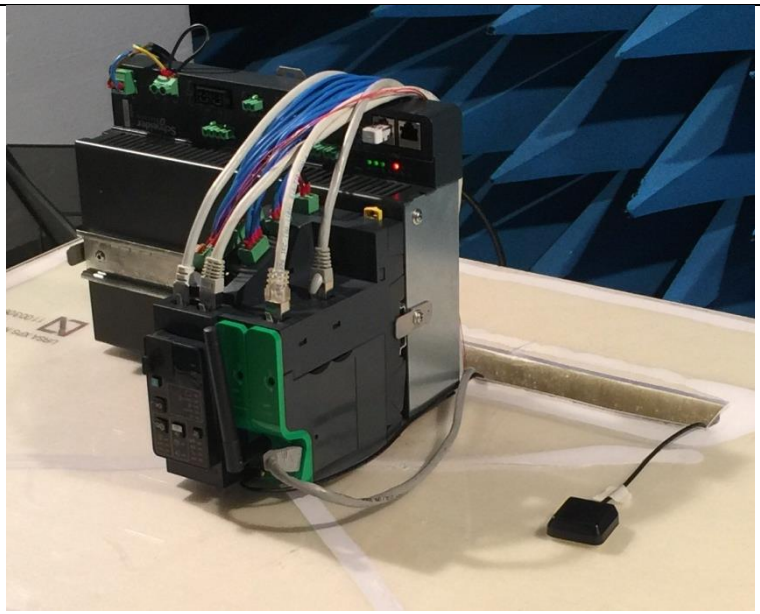
The Easergy HU250 is composed of 5 electronics boards

Board Reference	Board Name	Comment
HRB87113	IO_FE PCBA	Part of EAV32102-HU250 IO POWER SUBASSEMBLY
NHA54624	POWER_FE PCBA	Part of EAV32102-HU250 IO POWER SUBASSEMBLY
HRB87096	IHM_FE PCBA	Part of EAV32105 - 02 1 EACH [ ] - HU250 HMI SUBASSEMBLY
NHA55552	MAIN_FE PCBA	Part of HRB87117-MAIN_FE PCBA COATED
HRB87092	COM_FE PCBA	

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

1.3. Tested System Details

Equipment under test (EUT):
EMS59000
Serial Number: MP1-7



Photography of EUT

Power supply:
During all the tests, EUT is supplied by V_{nom}: 12VDC
For measurement with different voltage, it will be presented in test method.

Name	Type	Rating	Reference / Sn	Comments
Supply1	☐ AC ☑ DC ☐ Battery	12VDC	-	-

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

Inputs/outputs - Cable:

Access	Type	Length used (m)	Declared <3m	Shielded	Under test	Comments
1	Power supply (DC)	0.05	☐	☐	☐	12V
2	WLAN	1	☐	☑	☐	
3	Modbus	1	☐	☑	☐	
4	3rd Party	1	☐	☑	☐	
5	Lampes BVE	1	☐	☑	☐	
6	Outputs	1	☐	☑	☐	
7	Inputs	1	☐	☑	☐	
8	K7 RS485	1	☐	☐	☐	
9	LAN1	1	☐	☑	☐	com for test

Auxiliary equipment used during test:

Type	Reference	Sn	Comments
Power Supply DC	EMS58588 (PS50)	15260019	Provided by Schneider
Power supply DC	TDK	-	Ref LCIE : A7044055
K7 GSM/GPS	EMS59153	-	
K7 RS485	EMS59151	-	

Equipment information:

Type:	**WIFI**			
Frequency band:	[2400 – 2483.5] MHz			
Standard:	☑ 802.11b	☑ 802.11g	☑ 802.11n HT20	☑ 802.11n HT40
Spectrum Modulation:	☑ DSSS		☑ OFDM	
Number of Channel:	13			
Spacing channel:	5MHz			
Channel bandwidth:	☑ 20MHz		☑ 40MHz	
Antenna Type:	☑ Integral	☐ External	☐ Dedicated	
Antenna connector:	☐ Yes	☑ No	☑ Temporary for test	
Transmit chains:	☑ 1	☐ 2	☐ 3	☐ 4
	☑ Single antenna	☐ Symmetrical	☐ Asymmetrical	
	Gain 1: 2.27dBi	Gain 2: dBi	Gain 3: dBi	Gain 4: dBi	Accumuled Gain: dBi
Beam forming gain:	☐ Yes: dB		☑ No	
Receiver chains	☑ 1	☐ 2	☐ 3	☐ 4
Type of equipment:	☑ Stand-alone	☐ Plug-in	☐ Combined	
Ad-Hoc mode:	☐ Yes		☑ No	
Adaptivity mode:	☑ Yes (Load Based)	☐ Off mode	☑ No	
	Clear Channel Assessment Time		µs	
	q value for Load Based Equipment			
Duty cycle:	☑ Continuous duty	☐ Intermittent duty	☐ 100% duty	
Equipment type:	☐ Production model		☑ Pre-production model	
Type of power source:	☐ AC power supply	☑ DC power supply	☐ Battery (Select Type)	

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

1.4. Test Methodology

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

1.5. Test facility

Tests have been performed **From August 11th to 14th, 2015**.

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 and ANSI C63.10 (registration number 94821).
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, accreditation number 1-1633 as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.