

JOYA TOUCH A6 (DG)

FCC / ISED Certification strategy:

reference or reuse EMC and radio parameter test data from the application records of a similar device, for test reduction purposes, according to **484596 D01 Referencing Test Data v01**

Model: JOYA TOUCH A6

FCC ID: U4GJTADG

IC: 3862E-JTADG

HVIN: JTADG GUN

HVIN: JTADG HH

A) Introduction

Referring to 484596 D01 Referencing Test Data v01 ,

Datalogic S.R.L., located in Via S. Vitalino, 13 – 40012 Lippo di Calderara di Reno (BO) – Italy,

agreed with the certification laboratory,

CETECOM GmbH, located in Im Teelbruch 116 45219 Essen – Germany,

Submits the present exhibit in order to share the FCC/ISED certification strategy for

a **hardware depopulated new variant of JOYA TOUCH A6** (FCC ID: U4GJTADG, IC: 3862E-JTADG)

that descends from the completely polulated **JOYA TOUCH A6:**

(FCC ID: U4GJTAWB, IC: 3862E-JTAWB).

The **relevant operational features** of the complete **JOYA TOUCH A6** are:

- Wireless charging
- NFC card emulator feature
- WLAN: 802.11 a/b/g/n
- BT v4.0(Classic/ EDR and LE)

Technologies summary table			
Device description	Multipurpose device with barcode reader		
Equipment class	Rule part	Frequency bands	Output Watts
Part 15 Spread Spectrum Transmitter	15C	2402.0 2480.0	0,0033
Digital Transmission System	15C	2412.0 2462.0	0.1452
Digital Transmission System	15C	2402.0 2480.0	0.0019
Part 15 Class B Computing Device Peripheral	15B	/	/
Unlicensed National Information Infrastructure TX	15E	5180.0 5240.0	0.0151
		5260.0 5320.0	0.0139
		5500.0 5700.0	0.0147
		5745.0 5825.0	0.0104

The aim of such depopulating implementation was **to create a low cost variant in JOYA TOUCH A6 family.**

At this aim, **the following functionalities have been removed** in the hardware depopulated new variant of JOYA TOUCH A6:

- **Wireless charging**
- **NFC card emulator feature**

The HW depopulated variant shares with the complete variant the PCB layout, the design and the components.

The HW depopulated **new variant FCC IDs differs only in the depopulation of components for the purposes of removing the Hardware components** related to:

- **Wireless charging**
- **NFC card emulator feature**

FCC/ ISED granting of the complete JOYA TOUCH A6

(FCC ID: U4GJTAWB, IC: 3862E-JTAWB)

1. First issue:

- a. Date of grant: 09/04/2017
- b. Issued by:
CETECOM GmbH, Im Teelbruch 116
45219 Essen – Germany
- c. Remarks: first issue

1. Second issue:

- a. Date of grant: 03/14/2018
- b. Issue by:
CETECOM GmbH, Im Teelbruch 116
45219 Essen – Germany
- c. Remarks: Class II permissive change to bring e-label into use

As manufacturer,

Datalogic S.R.L., located in Via S. Vitalino, 13 – 40012 Lippo di Calderara di Reno (BO) – Italy,

takes full responsibility that the test **data as referenced per step D) represents compliance for the new FCC ID.**

B) Differences explanation

The difference between the HW depopulated new JOYA TOUCH A6 variant (FCC ID: U4GJTADG) and the complete JOYA TOUCH A6 (FCC ID: U4GJTAWB) is:

the removal of the following Hardware components:

1 coil for Wireless Charge functionality, 1 PCB antenna for NFC functionality, 1 RF cable for NFC functionality, 1 sensor for distance measurements, 1 small magnet for device detection during Wireless Charge, 1 flexible sintered ferrite, 2 IC on PCB for Wireless Charge and NFC functionality:

- ✓ U29 054120395 IC NFC TRANSPONDER, TSSOP-14
- ✓ U7 054120392 IC 10-W, WIRELESS POWER, SINGLE CHIP, BGA4

and some related passive components, 1 0ohm resistor addition in the PCB.

C) Spot Check Verification Data Section

For each remaining radio technology, the following spot check test have been carried out:

Technology	Test performed	New Test report	Old Test report
WLAN: 802.11 a	<ul style="list-style-type: none"> • Output power • Radiated spurious emissions • Band edge emissions 	CETECOM_TR18-1-0050701T04	WT17800408 2 (part 1 and part 2)
WLAN: 802.11 b	<ul style="list-style-type: none"> • Output power • Radiated spurious emissions • Band edge emissions 	CETECOM_TR18-1-0050701T03	WT17800354 3
WLAN: 802.11 g	<ul style="list-style-type: none"> • Output power • Radiated spurious emissions • Band edge emissions 	CETECOM_TR18-1-0050701T03 CETECOM_TR18-1-0050701T04	WT17800354 3
WLAN: 802.11 n	<ul style="list-style-type: none"> • Output power • Radiated spurious emissions • Band edge emissions 	CETECOM_TR18-1-0050701T03 CETECOM_TR18-1-0050701T04	WT17800408 2 (part 1 and part 2) WT17800354 3
BT v4.0(EDR)	<ul style="list-style-type: none"> • Output power • Radiated 	CETECOM_TR18-1-0050701T02	WT17800408 1

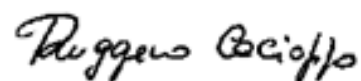
	spurious emissions <ul style="list-style-type: none"> • Band edge emissions 		
BT v4.0(LE)	<ul style="list-style-type: none"> • Output power • Radiated spurious emissions • Band edge emissions 	CETECOM_TR18-1-0050701T02	WT 178004080
EMC	<ul style="list-style-type: none"> • Unintentional emissions 	CETECOM_TR18_1_0050701T05 a	16-1- 0181301T08

D) Reference Section

JOYA TOUCH A6 (FCC ID: U4GJTAWB) reference compliance documentation is summarized in the table below:

Technology	Reference FCC standard	Reference IC standard	Test report
WLAN: 802.11 a,n	FCC §15.407 (a) 15.407 (b) 15.209 15.205	RSS-247 Clause 6.2	WT178004082 (part 1 and part 2)
WLAN: 802.11 b, g, n	FCC Part 15.209, 15.247(2016)	RSS-247 Issue 2(2017-02)	WT178003543
BT v4.0(EDR)	FCC Part 15.209, 15.247(2016)	RSS-247 Issue 2(2017-02)	WT178004081
BT v4.0(LE)	FCC Part 15.209, 15.247(2016)	RSS-247 Issue 2(2017-02)	WT 178004080
EMC	Part 15.107 Part 15.109	ICES-003, Issue 6 RSS-Gen, Issue 4	16-1- 0181301T08 RSP-100 Test Report Cover Sheet (NEU) V 2.0

Yours sincerely,

Ruggero Cacioppo

Product Quality Leader