



**TELTRONIC S.A.U.**  
**CIF/NIF: A-50035518**  
**Polígono Malpica, C/ F Oeste**  
**50057 Zaragoza (Spain)**

Federal Communications Commission  
Authorization and Evaluation Division

This Cover letter is to request Class II Permissive change in regards to the certification of FCC ID:  
WT7PTRUNK25RF800

This Class II Change adds:

1. APCO 25 phase II modulation to this already certificated product.
2. Low power radiated and conducted spurious emission data so that the following can be added to the grant: Output power can be adjusted in 2 dB steps to 0.6W from the value listed.
3. The following hardware changes:

The following modifications have been carried out in the RF Unit 806-870 MHZ;

**1. BACKPLANE**

Added transient suppressor diode at the power supply input.

**2. RPS**

Added two capacitors for filtering purposes and a transient suppressor diode (soldered with the electrolytic capacitor).

**3. RTX**

- 1) Two new DC-DC converters to improve heating and efficiency of power supply.
- 2) Added new +5 V and +3.3V linear voltage regulator.
- 3) Added in transmitter chain new models of variable attenuators, to allow a finer adjust of power. The previous model of attenuator (MAATCC0006, from MA-COM) is capable of 2dBs steps to 30dB. The new model of attenuator (MAX 2065, from MAXIM) has two independent attenuators. The digital attenuator with 31dB total adjustment range in 1dB steps and the analogue attenuator with 31dB total adjustment range by 8 bit DAC (0.125dB steps).
- 4) Removed screening (shield) can.

**4. BSYNC**

New DC-DC converter was added to improve heating and efficiency of power supply.

**5. RCPU**

- 1) New DC-DC converter to improve heating and efficiency of power supply.
- 2) Added new RAM and FLASH memory.
- 3) Changed the two DSP model from TMS320VC5416 to TMS320VC5510A to increase processing capabilities.

Internal photos of the boards have been included in the document "Annex\_Changes RF Unit 806-870 MHz" (see the corresponding numbers) and also the schematics are enclosed with the changes marked with red circles.

Sincerely,

**JOSÉ ROMÁN GIMENO**  
**CERTIFICATIONS & SERVICES AREA MANAGER**