

Gold Apollo Co Ltd
Rm 1, 3th Fl., No. 77 Sec 1 Hsin Tai Wu Rd, Hsi-Chih Dist
New Taipei city Taiwan 221

Federal Communications Commission
Authorization and Evaluation Division
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

Applicant's declaration concerning RF Radiation Exposure

We hereby indicate that the product
Product description: TRANSMITTER POCSAG ENCODER
Model No: TX-200EN

The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The integral antennas used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter within the host device.

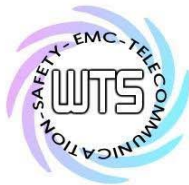
A safety statement concerning minimum separation distances from enclosure of the Product : TRANSMITTER POCSAG ENCODER will be integrated in the user's manual to provide end-users with transmitter operating conditions for satisfying RF exposure compliance.

The appropriate information can be drawn from the test report no: W6M21909-19370-C-1 and the accompanying calculations.

Company: Gold Apollo Co Ltd
Address: Rm 1, 3th Fl., No. 77 Sec 1 Hsin Tai Wu Rd, Hsi-Chih Dist
New Taipei city Taiwan 221

Date: 2019-10-24

Signature *Adam Yu*



Registration number: W6M21909-19370-C-1
FCC ID: NDATA200ENV

12. Maximum Permissible Exposure

12.1 Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 30 cm normally can be maintained between the user and the device.

12.2 MPE Calculation Method

(A) Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

*Plane-wave equivalent power density

$$E \text{ (V/m)} \cdot \frac{\sqrt{30 \times P \times G}}{d}$$

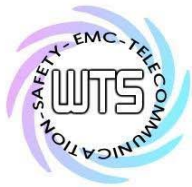
$$\text{Power Density: } Pd \text{ (W/m}^2\text{)} \cdot \frac{E^2}{377}$$

E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd \cdot \frac{30 \times P \times G}{377 \times d^2}$$



Registration number: W6M21909-19370-C-1
FCC ID: NDATX200ENV

EIRP = max. conducted output power + antenna gain+ tune up

$$\begin{aligned} \text{EIRP} &= 37.67 \text{ dBm} + (0 \text{ dBi [antenna gain claimed by manufacturer]} + 1 \text{ dB [tune up]}) = \\ &38.67 \text{ dBm} = 7362.0710 \text{ mW} \end{aligned}$$

Established separation distance is 30 cm.

Operating frequency band: 150.8~156.2475 MHz, 157.1875~161.575 MHz, 161.775~161.9625 MHz,
162.0375~173.4 MHz

The product meets RF exposure requirement.

Because the power density of 0.8195 mW/m^2 at 162.05 MHz is below the power density limit of 1 mW/m^2 .