

The original Mortara X12-600 with FCC ID# HJR-X12-600-15 and Canada #3758104616 is a medical device that transmits ECG data to a medical monitor for cardiographic interpretations. The device was tested to FCC Part 15.242 and RSS-210 Sect. 6.2.2 which allows for medical devices to operate within the TV bands. The product approval date was 9/27/2001.

Due to customer demand for a smaller better mechanical packaging of the X12-600, a redesign of the device was done. But to remain compatible with fielded receiver systems, the electronic design and RF characteristics had to remain the same. To achieve this, a modern processor and digital integration was used but the RF oscillator and modulation devices are using the same design but with a new circuit board to meet the mechanical requirement. The new product is called X12P-600

The table below highlights the significant “no changes” and changes from the original to the upgrade.

Feature	X12-600 (Original)	X12P-600 (Upgrade)
Carrier Frequency Band	608.48 to 613.52 MHz	608.48 to 613.52 MHz
Channel Spacing	80KHz	80KHz
FM Deviation	20KHz	20KHz
Modulation Data Rate	40 Kb/s	40Kb/s
Power Out	< 1mW	<1 mW
Antenna	External Helical	Internal Helical
System Reference Clock	5.12 MHz	5.12 MHz
Power	Two AA Batteries	Single AA Battery
Size	5.5” x 2.6” x 1”	3.75” x 2.4” x 1”
Weight	8.2 oz	4.3 oz