

Operational Description

The transmitter is a project (Model no.: PLC-XF60) collocate with a remote controller, which is going to control the function of the projector, and the frequencies used in the 4 channels of (2403, 2421, 2446, 2472MHz).

The transmitter of the EUT (Interactive Remote Controller) is powered by 3V batteries. When operates the EUT, the button can trigger the encoder IC (UPD789177) which produces the digital control signals and will modulate the carrier signal. The carrier signal is generated by a RF ASIC (nRF2402) than coupled to the monopole antenna. The type of antenna is $1/4 \lambda$ monopole antenna, and the modulation type is GFSK. The output power of this device is very low. Under normal use condition, the transmitter and the receiver are quite close, so high EIRP power is neither necessary nor allowed because of interference.