

Operation Description

Model : PTA-8012 Transmitter Module

The circuit was mainly composed with an ASIC (FS401) included a MICON Controller, a RF Transmitter Module (U10).

VGA processing function is conducted by the ASIC which carry out the modulation of VGA input signal, including composition of RGB signal synchronization and color carrier signal.

The Video memory processes the frame size and room of Video and a Video Clock working with 14.3MHz for NTSC system.

The video signal was sent to transmitter module from the ASIC through a Video Buffer, which combined with the Audio signal and be modulated by FSK modulation, then the RF signal was sent by a fixed antenna as 2.4GHz frequency. There exist 4 channels with 2414MHz, 2432MHz, 2450MHz and 2468MHz respectively for operators' selection.