

TM8100 CLOCK/OSCILLATOR FREQUENCIES

Reference: Block Diagrams of the TM8100 Mobile Radio System

Figure 7. Block diagram of the receiver circuitry of the main board

VCO (VHF, B1 band) 42.928MHz

VCO (UHF, H5/H6 bands) 90.328MHz

Figure 8. Block diagram of the frequency synthesizer circuitry of the main board

VHF (B1 band) VCO Transmit: 136-174MHz, Receive: 114.6-152.6MHz

UHF (H5 band) VCO1 Transmit: 400-470MHz
UHF (H5 band) VCO2 Receive: 354.9-424.9MHz

UHF (H6 band) VCO1 Transmit: 400-470MHz
UHF (H6 band) VCO2 Receive: 354.9-424.9MHz

VCXO 13.012MHz +/- 3kHz

TCXO 13.0000MHz
SYN_DIG_FREF 13.0000MHz

14V SMPS 450-550kHz

Figure 10. Block diagram of the power supply circuitry of the main board

SMPS (3V3) 225-275kHz

Figure 12. Block diagram of the circuitry of the digital board

SYSTEM CLOCK 12.288MHz
DIG_SYS_CLK 12.288MHz