

# SYNTHESIZER

Here we are using 3 Synthesizer Modules as given below.

CTW1690PES

•CTLP4430HFA

•CTLP102.40HDA

LO-1 is the broad band output frequency from 4520 MHz to 7500MHz.

We cannot generate total band with one PLL module. So we can use VCO from 1130MHz - 1875MHz and it will be connected to X4 multiplexer. It will generate total band .

LO-2 is the single output frequency of 4430 MHz using single VCO.

ADC Clock is the single output frequency of 102.4 MHz using single VCO.

Here we are giving two options for reference I/P signal one is internal and another is external reference signal. We can choose the reference with the help of keypad and display through SPDT Switch.

We are giving total control panel for choose the selectable frequencies as per customer requirement.



## UltraCMOS Phase-Locked Loop Frequency Synthesizers

Get maximum signal clarity with our ultra-low phase noise PLL synthesizers: the Integer-N family for demanding LMDS, MMDS, WLL and other base station systems, and our Fractional-N family for handheld and mobile wireless devices. UltraCMOS technology allows monolithic integration for a variety of programming options including embedded field-programmable EEPROM capable of frequency synthesis up to 2.7 GHz and permanent store of control bits.

