



Low Power 300-600 MHz programmable PLL

1.Features

Layout Area: 460 um X 290 um

Low Power PLL

PN (SSB): -80 dBc/Hz at Δf = 1 MHz Reference input: 16 MHz to 50 MHz

Power Dissipation: 1.5 mW

Output frequency range: 360 MHz to 600

MHz

Lock time: < 50 us

Ring-VCOs with 128 Bands

Automatic VCO/Band Selection System

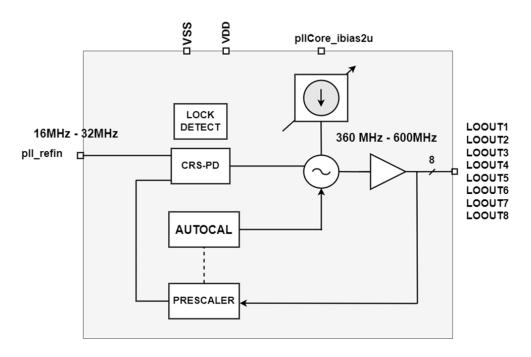
3. Description

The WEAPLL400M22 is a low power integer PLL operating at a single 0.8 V power supply. This PLL has a wide programmable frequency range operation operating from 300 MHz up to 600 MHz. The VCO outputs are coming into 8 cascaded phases. The PLL needs a sourcing current of 2 uA in order to operate. In the PLL logic, scan chain has been implemented for complete IP testability'.

2. Applications

Low Power Applications Mobile Applications

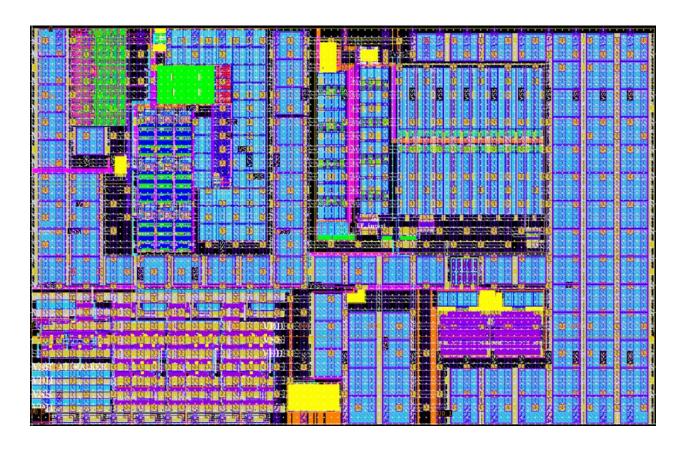
Simplified Schematic



WEAADC12BHSF122G AD/DA Converters



WEAPLL400M22



WEAPLL400M22 Physical Layout

4. Availability

Available on Q1 2025, GF 22FDX, Metal Option 19, Metal Option 120

5.Deliverables

GDSII, Database, SystemVerilog Models

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