

## Analog IP

# Analog-PLL For Spread Spectrum Clock

### Key Features

- Including Loop-filter
- VCO operating range : 900MHz - 1800MHz
- Output frequency range : 900MHz – 1800MHz
- Input frequency range : 12MHz - 192MHz
- Multiplying (Output freq. / PFD freq.) : 60 - 120
- Divider
  - 7bit feedback divider and 3bit input divider
- Power-down Mode
- Multiple outputs with post-divider
- SSC function available
  - spread type : center / down
  - modulation frequency : 3kHz – 30kHz
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  - modulation depth : 1 % – 3 % (peak-peak)
- STBY sequence is constraint-free

### Technology

Process : TSMC 28nm HPM/HPC

### Operating Condition

Parameter		Min	Max	Unit
Operating Voltage (AVDD)		1.62	1.98	V
Operating Voltage (VDD)		0.935	1.08	V
Junction Temperature		-40	125	°C
Input Clock	Duty	30	70	%
	Rise/Fall time	-	0.2	ns

CTPD-24-138

\*This IP is contract design IP. Please contact for detail.

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