Product Brief



FSX010125ST65

General Description

The FSX010125ST65 is an integer PLL optimized for an input reference frequency ranging from 10MHz to 125MHz and a frequency output ranging from 160MHz to 2GHz. It is ideally suited for applications that require a low power, low jitter, clock multiplier as over-sampled data converters and high-speed Serializer Deserializer (SerDes).

Applications

- Data converter clocking
- Clock multiplication
- SerDes

STATUS

Pre-development

INTEGER-N, PLL

Benefit and Features

- Process : 65nm CMOS LP/GP (1P7M)
- Type II, 3rd-order loop filter
- Integrated jitter from 10kHz to 40MHz : <1ps
- Low power : 10mW
- Output duty cycle : 50% ±5%
- -40°C to +125°C junction temperature
- Supply voltage : 1.2V ±10%
- Area : NDA required
- Power down mode

Deliverables

- Layout view (GDSII)
- Characterization report
- Behavioral model (Verilog-A)
- Data Sheet
- Characterization report
- Integration support

Customization and porting

The FSX010125ST65 will be evaluated and verified on silicon by our design team soon. This IP will be available as a hard macro-cell. It is scalable and portable with respect to manufacturing process and can be customized as necessary for the required application.

Our qualified approach greatly increases the probability of right-first-time designs while minimizing time-to-market and reducing developments costs.

About SCALINX

SCALINX is a fabless company designing state-of-the-art Analog and Mixed-Signal Integrated Circuits and Intellectual Property blocks for Communications and Industrial markets. Our core business is to provide tailored solutions to OEMs and semiconductor companies developing highend systems and circuits with ultra-low power requirements and reduced Bill of Material.

Our expertise is in the field of signal conditioning, data conversion systems (ADC/DAC) and digital processing.

SCALINX's IC design team has a cumulated expertise of more than 100 years in the semiconductor industry with a proven track record of first-time right tape-outs that led to several successful business stories.