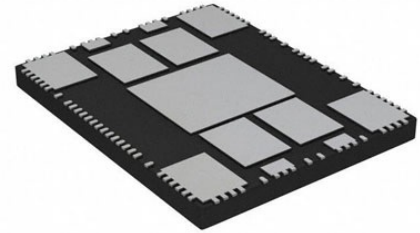


FemtoClock® NG Crystal-to-LVDS/HCSL Clock Synthesizer

Manufacturers	Renesas Technology Corp
Package/Case	VFQFPN-32
Product Type	Clock & Timer ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for 841N254BKILF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The 841N254I is a 4-output clock synthesizer designed for S-RIO 1.3 and 2.0 reference clock applications. The device generates four copies of a selectable 250MHz, 156.25MHz, 125MHz or 100MHz clock signal with excellent phase jitter performance. The four outputs are organized in two banks of two LVDS and two HCSL outputs. The device uses IDT's fourth generation FemtoClock® NG technology for an optimum of high clock frequency and low phase noise performance, combined with a low power consumption and high power supply noise rejection. The synthesized clock frequency and the phase-noise performance are optimized for driving RIO 1.3 and 2.0 SerDes reference clocks. The device supports 3.3V and 2.5V voltage supplies and is packaged in a small 32-lead VFQFN package. The extended temperature range supports wireless infrastructure, telecommunication and networking end equipment requirements.

Features

Fourth generation FemtoClock® (NG) technology

Selectable 250MHz, 156.25MHz, 125MHz or 100MHz output clock synthesized from a 25MHz fundamental mode crystal

Four differential clock outputs (two LVDS and two HCSL outputs)

Crystal interface designed for 25MHz, parallel resonant crystal

RMS phase jitter at 156.25MHz, using a 25MHz crystal (1MHz - 20MHz): 0.27ps (typical)

RMS phase jitter at 156.25MHz, using a 25MHz crystal (12kHz - 20MHz): 0.32ps (typical)

Power supply noise rejection PSNR: -50dB (typical)

LVC MOS interface levels for the frequency select input

Full 3.3V or 2.5V supply voltage

Available in Lead-free (RoHS 6) package

-40°C to 85°C ambient operating temperature

Related Products



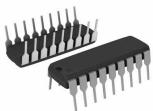
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Renesas Technology Corp
PDIP-18



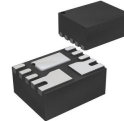
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Renesas Technology Corp
48-VFQFN



[CP82C84A](#)

Renesas Technology Corp
DIP-18



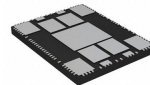
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Renesas Technology Corp
MLF-48



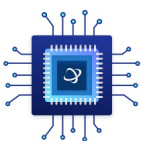
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Renesas Technology Corp
QFN-48



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VFQFPN-48



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Renesas Technology Corp



[CS82C84A](#)

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PLCC-20