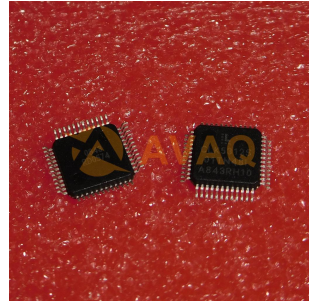



Zero Delay Buffer 12-Out eHSTL/HSTL/LVCMOS/LVTTL/SSTL Single-Ended 48-Pin TQFP Tray



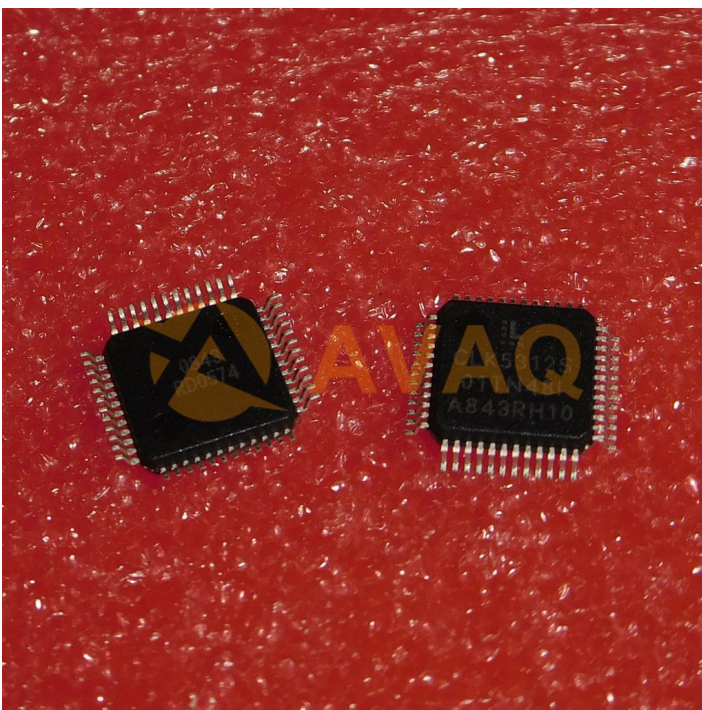
Images are for reference only

Manufacturer:	Lattice Semiconductor Corp
Package/Case:	QFP48
Product Type:	Clock & Timer ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Obsolete

[Inquiry](#)

General Description

The ispClock5300S is an in-system-programmable zero delay universal fan-out buffer for use in clock distribution applications. The ispClock5312S, the first member of the ispClock5300S family, provides up to 12 single-ended ultra low skew outputs. Each pair of outputs may be independently configured to support separate I/O standards (LVTTL, LVCMOS -3.3V, 2.5V, 1.8, SSTL, HSTL) and output frequency. In addition, each output provides independent programmable control of termination, slew-rate, and timing skew. All configuration information is stored onchip in non-volatile E2 CMOS® memory. The ispClock5300S devices provide extremely low propagation delay (zero-delay) from input to output using the on-chip low jitter high-performance PLL. A set of three programmable 5-bit counters can be used to generate three frequencies derived from the PLL clock. These counters are programmable in powers of 2 only (1, 2, 4, 8, 16, 32). The clock output from any of the V-dividers can then be routed to any clock output pin through the output routing matrix. The output routing matrix, in addition, also enables routing of reference clock inputs directly to any output. The ispClock5300S device can be configured to operate in four modes: zero delay buffer mode, dual non-zero delay buffer mode, non-zero delay buffer mode with output dividers, and combined zero-delay and non-zero delay buffer mode.



Recommended For You

ISPPAC-CLK5520V-01TN100I

Lattice Semiconductor Corp

QFP

ispPAC-CLK5410D-01SN64I

Lattice Semiconductor Corp

BGA

ISPPAC-CLK5510V-01TN48C

Lattice Semiconductor Corp

QFP

ISPPAC-CLK5308S-01TN48I

Lattice Semiconductor Corp

48TQFP

ISPPAC-CLK5312S-01TN48C

Lattice Semiconductor Corp

QFP

ispPAC-CLK5312S-01T48C

Lattice Semiconductor Corp

QFP