



KEY BENEFITS:

- Reduced part count, board space, BOM cost, and lead times
- Low jitter and skew
- Selectable frequencies for different applications
- Spread spectrum capability for EMI reduction
- PCI® Express Gen 1/2/3
- Integrated terminations
- 1.8 to 3.3 V – minimizes power and eliminates the need for I/O level translation
- All major signaling levels supported
- Very-low active and standby power
- Small packaging
- Compatible with Freescale V_{High} specification on differential clocks
- Automotive-grade available

IDT has the industry’s broadest portfolio of timing solutions, supporting applications in communications, computing and consumer markets. With products that uniquely complement Freescale™ i.MX designs, IDT provides the design expertise, reliability and delivery necessary to achieve design success. The information to the left and below identifies current IDT timing solutions for Freescale i.MX designs.

TARGET MARKETS AND APPLICATIONS:

- Auto Infotainment
- Consumer
- Connected Home
- Wearables
- Industrial
- Fitness and Health

OTHER COMPANION PRODUCTS:

- 1894K-32LF 10/100 Ethernet PHY
 - Wireless Power Solutions
- [Learn more at IDT.com/go/wireless](http://IDT.com/go/wireless)

To request samples, download documentation or learn more visit: idt.com/go/timing

Low-Power VersaClock® LP and VersaClock 5 Programmable Clocks

Part Number	Input Type	# of Frequencies	# of Outputs	Output Type	VDD (V)	Package	i.MX Family	Target Applications
5P49V5923 5P49V5925 5P49V5927 5P49V5929	XTAL ICLK	3 to 5 (includes REF)	3 to 9	LVC MOS	1.8 to 3.3	4 x 4 mm QFN	i.MX2 i.MX3 i.MX5 i.MX6 i.MX7	Auto Infotainment, Consumer, Connected Home, Industrial, Healthcare/Fitness
5P49EE502 5P49EE602 5P49EE802	XTAL ICLK TCXO	5 to 8	5 to 8	LVC MOS	1.8 to 3.3	3 x 3 mm QFN 3 x 3 mm QFN 4 x 4 mm QFN		Auto Infotainment, Consumer, Connected Home, Industrial, Healthcare/Fitness, Wearables

Very-Low-Power PCI Express® Gen 1/2/3 Clock Generators

Part Number	Input Type	# of Frequencies	# of PCIe Outputs	Output Type	VDD (V)	Package	i.MX Family	Target Applications
9FGV0241 9FGV0441 9FGV0641 9FGV0841	XTAL ICLK	2 (includes REF)	2 to 8	LP-HCSL, AC-LVDS*, AC-CML*, AC-LVPECL*	1.8	4 x 4 mm QFN 5 x 5 mm QFN 5 x 5 mm QFN 6 x 6 mm QFN	i.MX6	Auto Infotainment, Consumer, Connected Home, Industrial, Healthcare/Fitness

Low-Power PCI Express Gen 1/2/3 Clock Generators

Part Number	Input Type	# of Frequencies	# of PCIe Outputs	Output Type	VDD (V)	Package	i.MX Family	Target Applications
9FGL0241 9FGL0441 9FGL0641 9FGL0841	XTAL ICLK	2 (includes REF)	2 to 8	LP-HCSL, AC-LVDS*, AC-CML*, AC-LVPECL*	1.8	4 x 4 mm QFN 5 x 5 mm QFN 5 x 5 mm QFN 6 x 6 mm QFN	i.MX6	Auto Infotainment, Consumer, Connected Home, Industrial, Healthcare/Fitness

High-Performance, Low-Power Crystal Oscillators (XO)

Part Number	Phase Jitter	Minimum Frequency	Maximum Frequency	Output Type	VDD (V)	Package	i.MX Family	Target Applications
XU-series XO	<400 fs (12 k to 20 M)	0.016 MHz	1500 MHz	LVDS, LVPECL, HCSL, HCMOS	1.8 to 3.3	5032, 7050	i.MX2 i.MX3 i.MX5 i.MX6 i.MX7	Auto Infotainment, Consumer, Connected Home, Industrial, Healthcare/Fitness
XL-series XO	<1 ps (12 k to 20 M)	0.75 MHz	1350 MHz	LVDS, LVPECL, HCMOS	2.5 to 3.3	3225, 5032, 7050		

*AC prefix indicates that these logic levels are easily obtained with AC-coupling. See IDT Application note AN-891 for more details.

To request samples, download documentation or learn more visit: idt.com/go/timing