



New Product Announcement

PI6CG18xxx/ PI6CG15xxx/ PI6CB18xxx

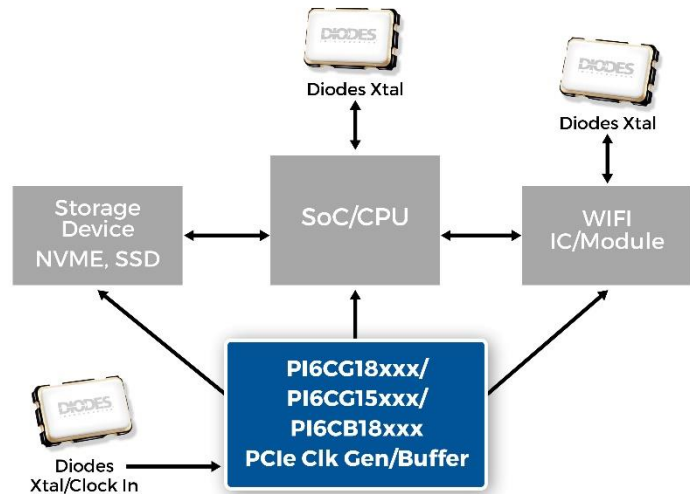
PCIe Gen 4 Clock Generators and Buffers

The PI6CG18xxx is a family of very low power PCIe® Gen4 multi-output (2/4/8) clock generators.

They use a 25MHz crystal or CMOS reference as an input to generate multiple 100MHz low power HCSL outputs with on-chip terminations. The on-chip terminations save 4 external resistors/output and make layout easier. An additional buffered reference output is provided to serve as a low noise reference for other ICs in the circuitry.

The PI6CG15xxx is the 1.5V version of the PI6CG18xxx clock generator series.

The PI6CB18xxx is a family of very low power PCIe Gen4 clock buffers with 2/4/6/8 outputs. These buffers include on-chip termination and also individual output enables for improved power management.



The Diodes Advantage

**Ultra low power consumption with improved performance.
Up to 85% power savings with PCIe Gen 4 performance**

- **On-Chip Termination**
BOM savings of 4 resistors/ output pair (up to 32 resistors)
- **Programmable slew rate and amplitude**
For design flexibility
- **Individual Output Enables**
For better power management
- **Full portfolio of timing solutions supporting PCIe Gen 4 from clock generators, buffers to crystals and oscillators**

Applications

- Server/Storage
- Embedded
- Consumer
- Networking Routers and Switches

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Product Portfolio

Part Number	Function	# of Outputs	Voltage Support	Package	Temp Range
PI6CG18200	Generator	2	1.8V	24-TQFN (4 x 4mm)	-40 to 85°C
PI6CG18201	Generator	2		24-TQFN (4 x 4mm)	
PI6CG18401	Generator	4		32-TQFN (5 x 5mm)	
PI6CG18801	Generator	8		48-TQFN (4 x 4mm)	
PI6CB18200	Buffer	2		24-TQFN (4 x 4mm)	
PI6CB18401	Buffer	4		32-TQFN (5 x 5mm)	
PI6CB18601	Buffer	6		40-TQFN (5 x 5mm)	
PI6CB18801	Buffer	8		48-TQFN (6 x 6mm)	
PI6CG15401	Generator	4	1.5V	32-TQFN (5 x 5mm)	

Ordering Information

MPN	Packaging	MOQ
PI6CG18200ZDIEX	24-TQFN	3500
PI6CG18201ZDIEX	24-TQFN	3500
PI6CG18401ZHIEX	32-TQFN	2500
PI6CG18801ZLIEX	48-TQFN	3000
PI6CG15401ZHIEX	32-TQFN	2500

MPN	Packaging	MOQ
PI6CB18200ZDIEX	24-TQFN	3500
PI6CB18401ZHIEX	32-TQFN	2500
PI6CB18601ZLAIEX	40-TQFN	3500
PI6CB18801ZLIEX	48-TQFN	3000