

Powering Intel® Cyclone® 10 FPGAs

with Intel® Enpirion® Power Solutions

**HIGH BANDWIDTH
FLEXIBLE
LOW COST
ACCELERATED DESIGN**



**POWER DENSE
RELIABLE
EASY TO USE
FPGA-OPTIMIZED**

Powering Intel® Cyclone® 10 FPGAs Is Easier with Intel® Enpirion® Power Solutions

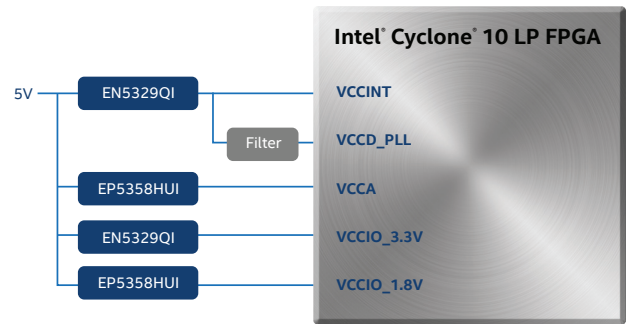
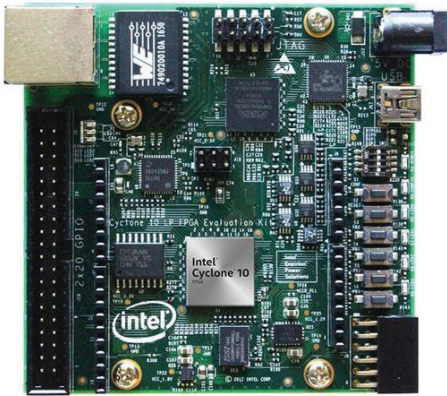
Save valuable design time and accelerate your schedule by combining Intel® Cyclone® 10 FPGAs with Intel Enpirion® Power Solutions. Intel Enpirion PowerSoCs integrate nearly all the components needed for Intel Cyclone 10 FPGA power rails, providing a family of fully validated, easy-to-use solutions with up to 96% efficiency[†] – freeing designers to focus on their unique intellectual property (IP) and FPGA design and spend less time on power supply design.

Recommended Intel Enpirion Power Solutions for Intel Cyclone 10 FPGAs

POWER RAIL CURRENT REQUIREMENT	FOOTPRINT-OPTIMIZED SOLUTION	PERFORMANCE-OPTIMIZED SOLUTION
≤0.4A	EP5348UI	EP5348UI
≤0.6A	EP5357xUI, EP5358xUI	EP5357xUI, EP5358xUI
≤0.8A	EP5388QI	EP5388QI
≤1.0A	EP53A7xQI, EP53A8xQI	EN6310QI
≤1.5A	EP53F8QI, EZ6301QI	EN5319QI
≤2.0A	EN5329QI	EN5329QI
≤3.0A	EN5339QI, EN6338QI, EZ6303QI	EN6337QI, EN6338QI
≤4.0A	EN6340QI	EN6347QI
≤6.0A	EN6363QI	EN6362QI
≤8.0A	EN6382QI	EN6382QI
≤10.0A	EN29A0QI	EN29A0QI
≤12.0A	EN63A0QI	EN63A0QI
≤20.0A	EM2120xQI	EM2120xQI
≤30.0A	EM2130xQI, EM2030xQI	EM2130xQI, EM2030xQI

Intel Cyclone 10 LP FPGA Evaluation Kit Powered by Intel Enpirion Power Solutions

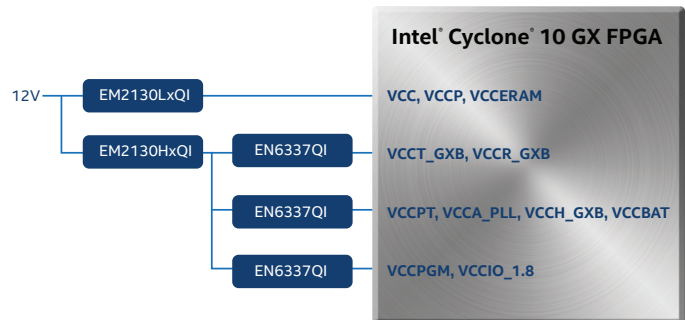
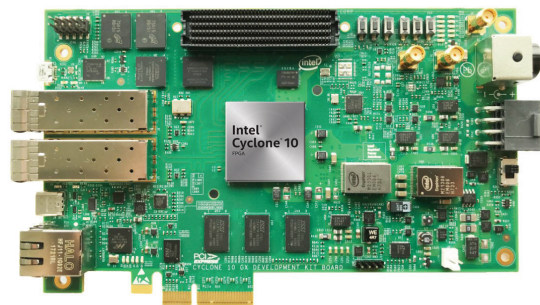
Save valuable board space and design time while maximizing system power density.



Learn more at https://www.intel.com/content/www/us/en/programmable/products/boards_and_kits/dev-kits/altera/cyclone-10-lp-evaluation-kit.html

Intel Cyclone 10 GX FPGA Evaluation Kit Powered by Intel Enpirion Power Solutions

Take advantage of FPGA performance without sacrificing efficiency.



Learn more at https://www.intel.com/content/www/us/en/programmable/products/boards_and_kits/dev-kits/altera/cyclone-10-gx-development-kit.html

Related Links

- Intel Enpirion Power Solutions
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- Intel Cyclone 10 FPGAs
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- Powering FPGAs with Intel Enpirion Power Solutions
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[†]Tests measure performance of components on a particular test, in specific systems. Differences in hardware, software, or configuration will affect actual performance. Consult other sources of information to evaluate performance as you consider your purchase. For more complete information about performance and benchmark results, visit www.intel.com/benchmarks.