

# Powering Intel® Stratix® 10 FPGAs and SoCs

with Intel® Enpirion® Power Solutions



## Build Flexible, Intelligent, Powerful Systems with Intel Stratix® 10 FPGAs and SoCs Powered by Intel® Enpirion® Power Solutions

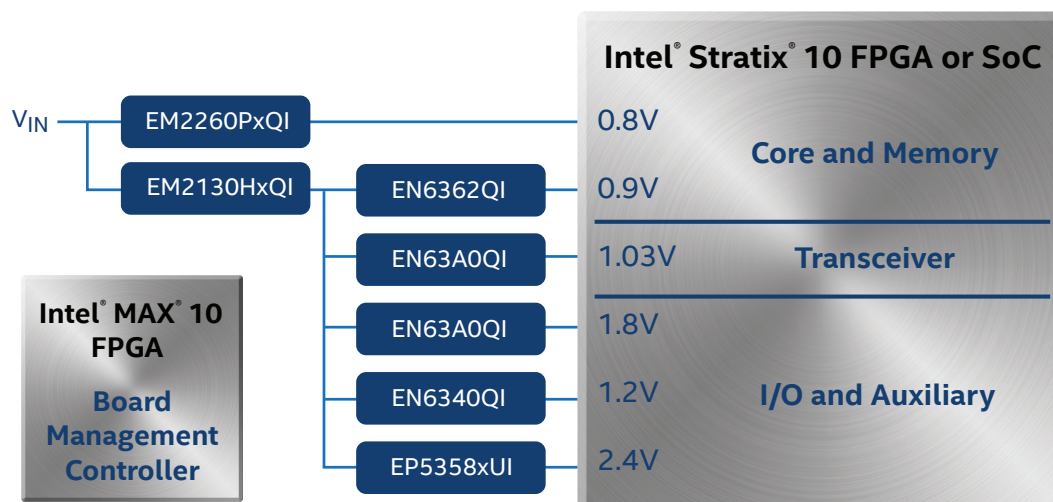
Powerful applications rely on the advanced performance and flexibility of Intel® Stratix® 10 FPGAs, and Intel Enpirion® Power Solutions are designed to enable Intel Stratix 10 FPGAs to operate at peak performance.

Together, Intel Stratix 10 FPGAs and Intel Enpirion Power Solutions enable designers to:

- Reduce power consumption with SmartVID capability
- Implement dynamic and intelligent system power management with the Intel Enpirion digital PowerSoC family and Intel® MAX® 10 FPGA board management controller capability
- Save PCB space to shrink form factors or fit additional system features
- Save time and lower risk with solutions that are designed and validated together

Focus on getting the most of your Intel Stratix 10 FPGA design - not how to power it - with Intel Enpirion Power Solutions.

## Example Intel Stratix 10 FPGA or SoC Power Tree



## Recommended Intel Enpirion Power Solutions for Intel Stratix 10 FPGAs and SoCs

POWER RAIL CURRENT REQUIREMENT	RECOMMENDED POWER SOLUTIONS
≤0.4A	EP5348UI
≤0.6A	EP5358xUI
≤0.8A	EP5388QI
≤1.0A	EP53A8xQI, EN6310QI
≤1.5A	EP53F8QI, EN5319QI, EZ6301QI
≤2.0A	EN5329QI
≤3.0A	EN5339QI, EN6337QI, EN6338QI, EZ6303QI
≤4.0A	EN6340QI, EN6347QI
≤6.0A	EN6362QI, EN6363QI
≤8.0A	EN6382QI
≤10.0A	EN29A0QI
≤12.0A	EN63A0QI
≤20.0A	EM2120xQI
≤30.0A	EM2130xQI, EM2030xQI
≤40.0A	EM2140xQI, EM2040xQI
≤60.0A	EM2260xQI
≤80.0A	EM2280xQI

### Related Links

- Intel Enpirion Power Solutions  
[www.intel.com/enpirion](http://www.intel.com/enpirion)
- Intel Stratix 10 FPGAs  
[www.intel.com/stratix10](http://www.intel.com/stratix10)
- Powering FPGAs with Intel Enpirion Power Solutions  
[www.intel.com/poweringfpgas](http://www.intel.com/poweringfpgas)



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<sup>†</sup>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](http://www.intel.com/benchmarks).