

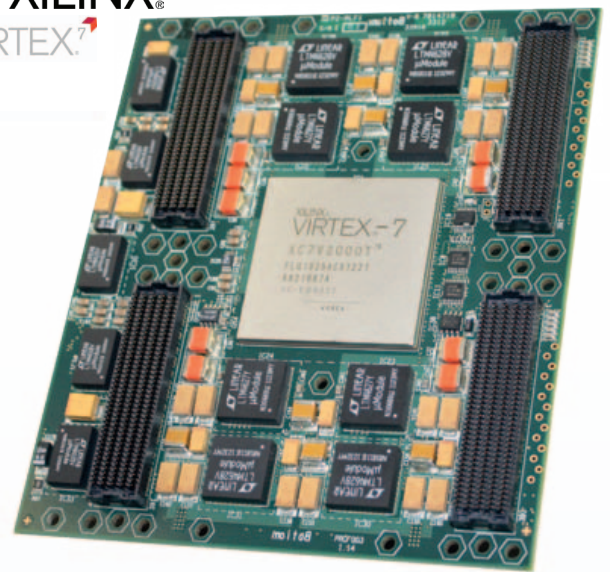
XC7V2000T FPGA Module

Product Summary

The proFPGA XC7V2000T FPGA module is the logic core for the scalable, and modular multi FPGA proFPGA solution, which fulfills highest needs in the area of FPGA based Prototyping. It addresses customers who need a scalable and most flexible high performance ASIC Prototyping solution for early software development and real time system verification. The innovative system concept and technologies offer highest flexibility and reuseability for several projects, which guarantees the best return on invest.

The proFPGA XC7V2000T FPGA module, which only works in combination with an proFPGA duo or quad motherboard offers with its latest Virtex 7 FPGA technology maximum capacity of up to 12 M ASIC gates alone in one FPGA. It is designed to archive highest performance in combination with its high speed connectors. The module offers with its 8 extension sites up to 1100 user I/Os for daughter boards (e.g. memory boards, interface boards), interconnecting cables or customer specific application boards.

Besides the standard I/Os the module also provides 16 high speed serial transceivers (MGTs) for high speed interfaces like PCIe Gen2, Gen3, USB 3.0 or DDR3 memories. All of the 8 extension sites offer individually and stepless adjustable voltage regions from 1.2V up to 1.8V.



profpga XC7V2000T FPGA Module Specification	
FPGA Type	- Xilinx Virtex XC7V2000T (speedgrade 1, 2)
Capacity	- Up to 12 M ASIC gates
FPGA-internal memory	- Up to 46,512 kbits
Signaling rate	- Up to 1 Gbps (standard I/O)/ 12.5 Gbps (MGT)
Extension sites	- 8 Extension sites with High Performance connectors
I/O resources	- Overall 1084 signals for I/O and inter FPGA connection - 4x148 I/Os to top side connectors - 3x148 and 1x48 I/Os to bottom side connectors - Single-ended or differential
High speed I/O transceivers	- 16 dedicated MGTs running up to 12.5 Gbps
FPGAs interconnections	- Flexible via high-speed interconnection boards or cables
Voltage regions	- 8 individually adjustable voltage regions per FPGA Module - Stepless from 1.2 up 1.8V - Automated adjustment of right voltage for daughter boards
Configuration	- With proFPGA duo/quad Motherboard via Ethernet, USB, PCIe
Order Code	- PROF-FM-XC7V2000T

