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TECHNOLOGY GROUP

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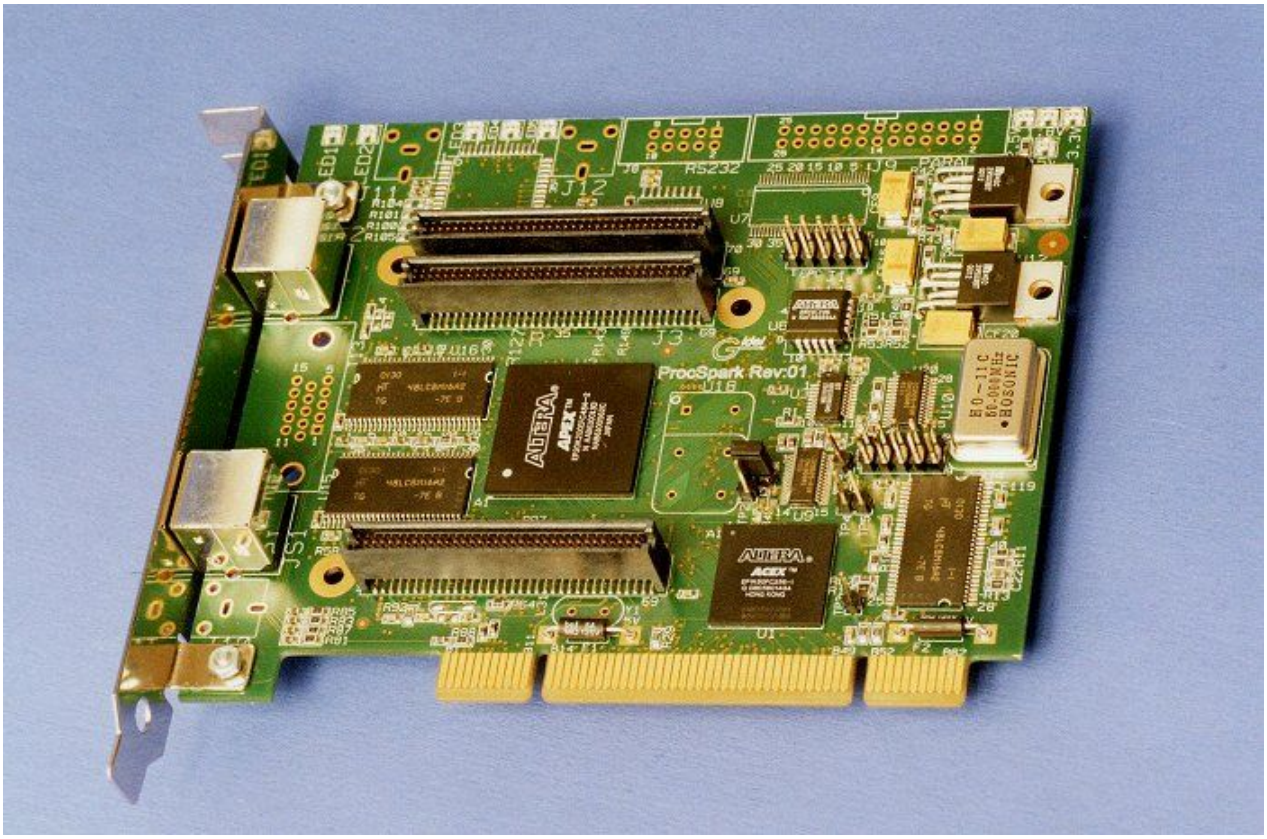
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Find the *Gidel PROCSpark H* at our website: *Click HERE*

PROCSpark



Gidel's - ***PROC*Spark**™ is an ALTERA® APEX® 20KC/E - based production board is PCI development / system board, for various applications such as image processing, medical, DSP, HDL training classes, electro-optics, military and many others.

Key features:

- APEX 20KC/E 100 / 200 for custom logic implementations.
- Supported by Gidel's development kit.
- Up to two 32MB 32 bit wide memory blocks with an innovative controller.
- ACEX1K100 with Gidel's logic including: PCI bridge(Altera's IP), DMA's and board control.
- Optional on-board video processing (decoder and/or encoder).
- High-density I/O (up to 170) connectors to support custom daughter-boards for system adaptation.

***PROC*Spark** architecture, with Gidel's innovative development kit, offers an incredible improvement of time-to-market, because there is no need for designers to handle the PC board design, the application driver, board constrains, the memory controller and other standard elements. Designers may focus on their proprietary design, and are able to establish their system interface by simply using a daughter-board. Gidel's daughter-boards include the ***PROC*Proto** for fast system interfacing, and the ***PROC*LA** for simple debug.

PCI Features:

- PCI short-card form factor.
- DMA & interrupts.

Technology:

- ALTERA® APEX® 20K/C/E (20K100 to 20K200) FPGA/PLD support.
- PCI standard interface using Altera's PCI core, implemented on an additional device.

Re-Configuration:

User design may change to accelerate various applications

- Re-configuration of the PROCStar board is accomplished by closing the current class and opening a new application driver class. It may also be accomplished by activating the “Load_IC” command in order to merely replace a specific device.
- The application drivers are automatically generated by PROCWizard.
- Configurable, Rapid, Parallel access to on-board DRAMs using PROC MultiPort.

Basic features:

- APEX 100E for user design.
- User’s I/Os available through 2 PROC Daughter Board connectors (110 I/Os).
- 16M*16 bits SDRAM for user custom application.

-H Option includes:

- APEX 200E / C-7 for bigger/faster user design.
- An additional 16M*16bits SDRAM for user custom applications.
- An aadditional Daughter Board connector (additional 60 I/Os).

-V Option includes:

- Video processing (decoder and/or encoder) and video connectors.

Other options:

- Customizable daughter-board for additional D/A or A/D processes, data storage, data acquisition, etc.
- Computer communication - serial/RS232 and standard parallel port.

PROC **Boards: *PROC* Star II | *PROC* SuperStar | *PROC* 2S | *PROC*e | *PROC* Spark | *PROC* DSP | *PROC* Star *PROC*Wizard | *PROC*MultiPort | *PROC* Boards | *PROC* daughter | *PROC* HILs**

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PROCSpark system ordering codes

PROC Dvelopmant kits ordering codes:

Ordering code	Includes:
PROCPak	***PROCSpark***: **Board** with Apex 100E & 32MB. ***PROCWizard*** (software): Host - Board integrator + debug tool. ***PROCMultiPort*** (IP): Easy to use, on board memory, multi-port controller.
PROCPak-H	***PROCSparkH***: **Board** with Apex 200C-7 & 64MB. ***PROCWizard*** (software): Host - Board integrator + debug tool. ***PROCMultiPort*** (IP): Easy to use, on board memory, multi-port controller.
PROCSup light	one year PROC Developer's license (second + year) for use with PROCSpark family (for users with valid PROC Developer's kit license).
Notes:	1. All development packages include phone & Email support. 2. PROCWizard & PROCMultiPort License are for being used only by Gidel Boards. 3. PROCWizard, PROCMultiPort & Quartus license is for one year.

Consulting, Outsourcing and on-site training are available.

Boards ordering codes:

Ordering code (Basic models)	FPGA Devices	# of FPGAs	On-Board memory	Unique features	FPGA internal RAM	# of LEs
PROCSpark	**APEX E/C 100,200**					
PROCSpark	APEX 100E	1	32MB		~50Kb	4,160
PROCSpark-H	APEX 200C-7	1	64MB		~100Kb	8,320
PROCSpark-V	APEX 100E	1	32MB	Video	~50Kb	4,160
PROCSpark-HV	APEX 200C-7	1	64MB	Video	~100Kb	8,320

Other models are available for quintity orders.

PROCStar Daughter boards ordering codes:

Ordering code	Notes:
PROCLA	Logic Analyzer adapter
PROCProto	Rapid Prototyping platform for user system connections & devices
PROC2S	**Stratix II 60-180** Board with 3 main modes: • As PROC Daughter Board (up to 3 on one PROCStar). • As a stand-alone. • As User's Daughter Card.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

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