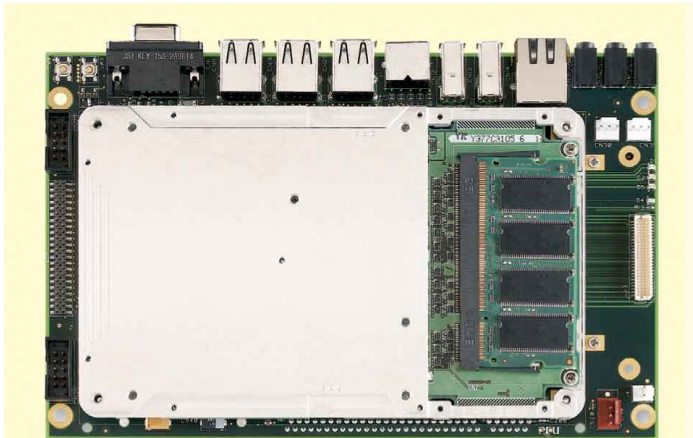
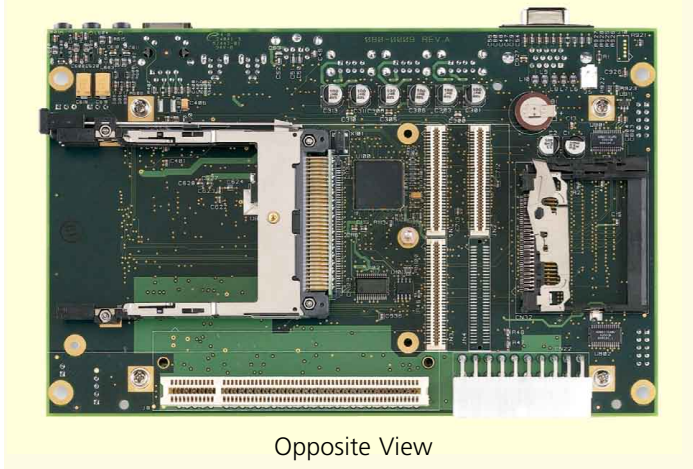


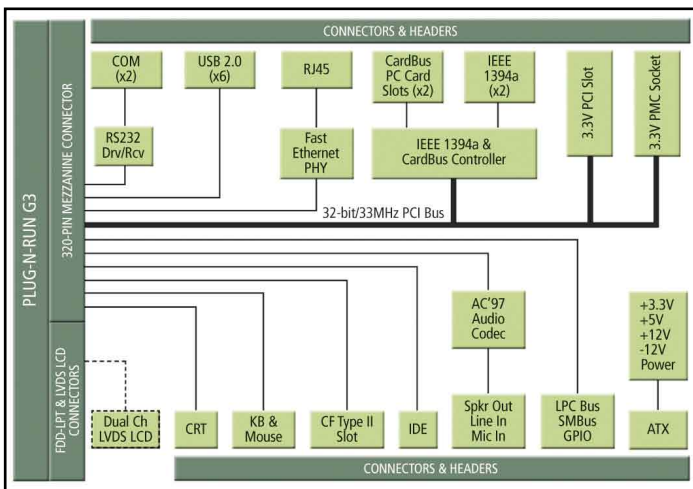
Plug-N-Run™ G3 Carrier Board



SwissBlade shown with 1.8GHz Plug-N-Run G3 Module



Opposite View



Block Diagram

Applications:

- Industrial automation
- Medical
- Transportation
- Security
- Test & measurement
- Retail & advertising

Description:

PFU Systems' SwissBlade is an ultra-compact, off-the-shelf carrier board that uses PFU Systems' Plug-N-Run G3 System-on-Modules for embedded x86 host functionality. The SwissBlade carrier board and Plug-N-Run G3 module combined, deliver a small footprint, low-power and powerful embedded system with scalable performance and flexible PCI expansion.

The SwissBlade carrier board is available in configurations that include combinations of a vertical PCI slot, a PMC socket and two Type II PC CardBus slots. A customized version with a right-angled PCI slot that permits a PCI add-in card to be oriented parallel to the board may also be ordered from PFU Systems. These configurations provide OEMs an optimized and scalable solution for an Intel® Pentium® M or Intel® Celeron® M based System-on-Module and carrier board with PCI expansion capability and industry standard I/O interfaces that include USB 2.0 and IEEE 1394a ports for imaging and high-speed device connectivity.

Serial ports and GPIO interfaces provide multi-purpose interfaces for control and low speed data transfer. An IDE CompactFlash® Type II socket accepts removable solid-state storage devices for software upgrades and system recovery. An Ethernet port supports PXE (Pre-Boot-Execution Environment) for diskless booting over a LAN. Dual channel LVDS LCD panels may be connected to the Plug-N-Run G3 module in addition to a VGA interface on the SwissBlade for enhanced 3D graphics.

A SwissBlade Starter Kit with complete set of cables, and the reference design kit with schematics and bill of materials are available separately. PFU Systems ProDeS™ professional design services provides quick-turn customization and production of carrier boards. Please contact your PFU Systems sales representative for further details.

SPECIFICATIONS SUMMARY

FEATURE	SPECIFICATION
MODULE	
Compatibility Interface	Plug-N-Run G3 modules 320-pin mezzanine connector
I/O CONTROLLER	
Ethernet PHY	Intel® 82562ET, 10/100Base-T with PXE
IEEE 1394a & CardBus Controller	Texas Instruments PCI4520
Audio Codec	Analog Devices AD1885, AC '97
I/O CONNECTORS & HEADERS	
32-bit /33MHz PCI Expansion	1x 3.3V PCI card-edge slot, 1x 3.3V PMC socket
CardBus	2x Type II slots or 1x Type III slot
FireWire™	2x IEEE 1394 6-pin connectors
USB 2.0	6x USB type A connectors
Ethernet	1x RJ45 connector
Audio - Stereo Speaker Out, Stereo Line-In and Mono Mic-In	3x 3.5mm jacks
IDE	1x 44-pin socket
CompactFlash (True IDE)	1x Type II slot
Serial	2x RS232 10-pin headers
Keyboard and Mouse	1x Combined PS/2 6-pin Mini-DIN connector
CRT	1x 15-pin D-Sub connector
LCD	1x 30-pin connector (On the Plug-N-Run G3 module)
LCD Inverter Power and Logic Power	1x 4-pin header (+5VDC, +12VDC, GND), 1x 2-pin header
PC Speaker/Buzzer	1x 2-pin header
Mezzanine LPC Bus, SMBus, GPIO	1x 50-pin header
CMOS Backup Battery	1x VL1220 rechargeable
Power Supply	1x 20-pin ATX header (+3.3V, +5V, +5VB, +12V, -12V, GND)
Fan	2x 3-pin headers
OPERATING CONDITIONS	
Ambient Temperature (Ta)	0 – 50°C
STORAGE CONDITIONS	
Storage Temperature	-20 – 65°C
Humidity	0 – 90% RH, non condensing
PHYSICAL	
Dimensions	196.8mm x 127mm x 35.7mm (7.75" x 5" x 1.41")
Weight	≤ 261g (9 oz)

ORDERING INFO

ITEM	PART NUMBER
Carrier Board	
SwissBlade Carrier Board	PS3PRSWBLDA
Accessories	
Starter Kit	PS3PRSWBLDKIT
Reference Design (Schematics, BOM, Gerbers)	PS3PRSWBLDREF
Please contact PFU Systems for a complete list of available accessories for the SwissBlade.	
Plug-N-Run G3 Modules	
600MHz Plug-N-Run G3	PS3PRC600
1.1GHz Plug-N-Run G3	PS3PR011
1.3GHz Plug-N-Run G3	PS3PRC013
1.6GHz Plug-N-Run G3	PS3PR016
1.8GHz Plug-N-Run G3	PS3PR018

ProDeS CUSTOMIZATION OPTIONS

PFU Systems ProDeS professional design services provides quick-turn customization, cost reduction and production of custom carrier boards. Please contact PFU Systems for further details.

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