

## DFI R100, R110 and R120

Need the power of an Intel P4 processor or Core 2 Duo processor with our small Mini-ITX form-factor? The R100 series is DFI Technologies' most versatile solution. The R100, R110 and R120 offer various different motherboard options, along with multiple options for processors, memory, hard drives and

CD/DVD-drives. The combinations are nearly endless, ensuring you will get the best configuration for your application. While you may be able to find a single Mini-ITX solution available from other sources, no one in the industry offers as many different configurations as DFI.

**R100  
Series  
Industrial PC**



R100

Compared to the R100, the R110 supports a full-height half-length PCI add-in board while the R120 supports two full-height half-length PCI add-in boards.



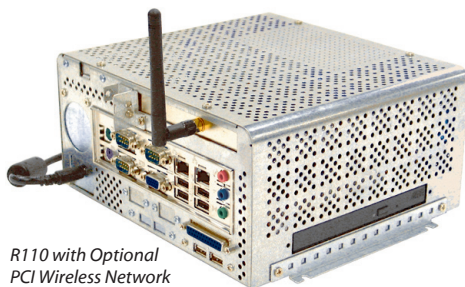
All configurations include video, integrated network, audio, multiple COM and USB ports and optional CD/DVD/CDRW drive. DFI is the first to offer an internal power supply with enough juice to power a desktop P4 processor, and we also have the 20V or 24V DC option for some systems.

The R100 family is the system for you if your application requires processing power, small size, and competitive pricing. The R100 Series' galvanized steel frame construction makes our solution durable, yet lightweight. It is ideal for light industrial applications such as test and measurement, factory automation, warehouse automation, point-of-sale terminals, multimedia kiosks, or any other application where you need a powerful computer.



R110

The R100 family comes with mounting rails so that it can be mounted in your equipment. The chassis comes with rubber feet to keep the system from scratching surfaces. It can be mounted anywhere in light industrial environments. The thousand holes on the chassis are there for ventilation because modern computers run at high temperature and the cooler it runs, the more reliable your computer will be.



R110 with Optional  
PCI Wireless Network  
Card and DC Power Input

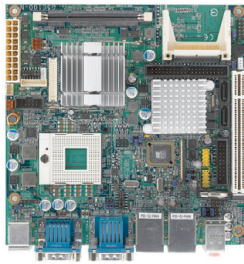
Our Mini-ITX industrial motherboards are different from those available in the commercial market. DFI products use Mini-ITX motherboards designed and manufactured by the DFI Applied Computing Products division, at our Taiwan manufacturing facility. All DFI-ACP board products are guaranteed for a 3- to 5-year availability from the dates of the boards' introductions. The DFI-ACP

boards are based on embedded roadmap components for the main chipset and processors. If a product does go end of life,



R120

...con't...

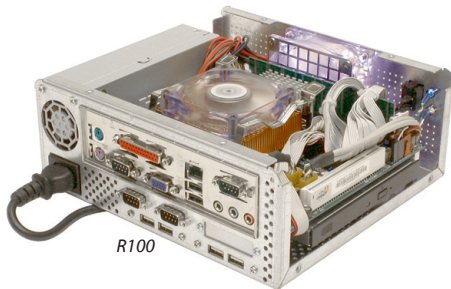


G5C100-N

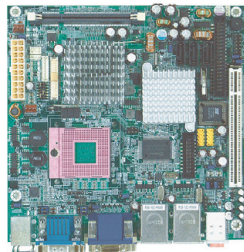
notice is sent six months before this DFI-ACP board is discontinued, and a replacement is recommended for evaluation.

All our DFI-ACP products utilize technologies and technical information learned from our high-volume commercial motherboards that have been shipped by the hundreds of thousands. Along with our upgraded industrial components found on these board, all this knowledge and experience translate to a more stable and compatible platform for your embedded and industrial applications.

	R100/R110/R120 470	R100/R110/R120 475	R100/R110/R120 480	R100/R110/R120 485
Construction	Galvanized Steel Frame Construction			
Main Board	DFI-ACP G4G100-N	DFI-ACP G5G100-P	DFI-ACP G5C100-N	DFI-ACP SR100-N
Processor Type	Intel Celeron, Celeron D, Pentium 4 (Desktop type)	Intel Celeron M, Pentium M (Mobile type)	Intel Celeron M, Core Solo, Core Duo, Core 2 Duo (Mobile type)	Intel Core 2 Duo (Mobile type)
Processor FSB	533 / 800	400 / 533	533 / 667	533 / 800
Main Chipsets	Intel 915GV + ICH6	Intel 915GME + ICH6M	Intel 945GME + ICH7M + GMA950	Intel GME 965 + ICH8M + GMA X3100
PCI Slot	R100: No add-in card slot R110: One Full-height, Half-length PCI Card Support R120: Two Full-height, Half-length PCI Card Support			
HDD and Optical Drive Bays	1 Desktop-type HDD alone, or 1 Notebook-type HDD and 1 Notebook-type Optical Drive or Compact Flash Drive Kit, or 2 Notebook-type HDDs with Optional Shockmount Bracket/Kit			
PS/2 Keyboard and Mouse Ports	1 pair	1 pair	1 pair	1 pair
DB-9 Serial Port	4	3	3	2
Video Port	1 DB-15	1 DB-15	1 DB-15	1 DB-15 + 1 DVI-D
RJ45 LAN Port	2x (10/100/1000)	1x (10/100/1000)	2x (10/100/1000)	2x (10/100/1000)
USB Port	6	6	6	6
Audio Jacks	3	3	3	3
Internal CF Card	0	0	1	0
Dimension (W x H x D)	R100 System: 8.80" x 3.50" x 8.00" (223.5 x 88.9 x 203.2 mm) R110 System: 8.80" x 4.35" x 8.00" (223.5 x 110.4 x 203.2 mm) R120 System: 8.80" x 5.16" x 8.00" (223.5 x 131.0 x 203.2 mm) These are nominal sizes - Allow additional space all-around for screws, side brackets, connectors and ventilation.			
Weight	7.8 lbs to 11.0 lbs depending on configuration			
Standard AC Power	Internal auto-110/220V 180W ATX-type power supply with power factor correction and noise killer feature.			
Optional DC Power	None	20V / 24V	20V / 24V	20V / 24V
Ventilation	One 80 mm enclosure fan			
Mounting Option	Removable side/bolt-down bracket - shipped as standard equipment.			
Operating Temp.	0°C - 60°C (32°F - 140°F), 10% - 90% RH. Note: The operating temperature is limited by the processor's specs.			



R100



SR100-N



R100

All pictures are for illustration only. The I/O port arrangement, motherboard inside, power supply type, add-in wireless 802.11 card, and other components will differ depending on the configuration you request.