

# FSB-525G

Full-Size SBC With Onboard Intel® Dual-Core™ Atom™ Processor

Launched in Q3

## Features

- Onboard Intel® Dual Core™ Atom™ D525 /Single Core™ Atom™ D425 Processor
- Intel® D525/ D425 + ICH8M
- 204-pin Single Channel DDR3 800 MHz SODIMM Slot x 2, Up to 4GB
- 10/100/1000Base-TX Ethernet x 2
- Intel® D525/D425 Integrated GMA 3150 Graphic Engine
- HDAC Daughter Board (Optional)
- IDE x 1, SATA 3.0Gb/s x 2, CompactFlash™ Type 2 x 1, Standard Floppy Disk x 1
- COM x 2, USB2.0 x 7 , Parallel x 1
- ISA/PCI Connector Expansions
- ATX 2.1
- PICMG 1.0

## Specifications

System	
Form Factor	PICMG 1.0
Processor	Onboard Intel® Dual Core™ Atom™ D525 (1M cache, 1.80GHz) or Single Core™ Atom™ D425 (512k cache, 1.80GHz) processor
System Memory	204-pin single channel DDR3 800MHz SODIMM Slot x 2, up to 4GB
Chipset	Intel® D525 or D425 ( co-lay ) + ICH8M
Ethernet	Realtek RTL8111C Gigabit Ethernet x 2, RJ-45 x 2
BIOS	AMI SPI BIOS ROM
Expansion Interface	ISA/PCI Connector
Watchdog Timer	1~255 steps, can be set with software on Super I/O
RTC	Internal RTC
Battery	Lithium Battery
Power Requirement	ATX 2.1
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Board Size	13.3"(L) x 4.8"(W) (339mm x 122mm)
Gross Weight	1.2 lb (0.5 kg)
MTBF (Hours)	60,000
Power Consumption (Typical)	—
Display	
VGA Controller	Intel® D525/D425 integrated GMA 3150 Graphic Engine
Memory	—
Resolution	Flat panels up to 2048x1536 @ 60 Hz
LCD Interface	18-bit single channel LVDS interface
I/O	
Storage	IDE x 1, SATA 3.0Gb/s x 2, CompactFlash™ Type 2 x 1, Standard Floppy Disk x 1
Serial Port	COM x 2: (Internal Pin Header x 2) COM 1: RS-232 COM 2: RS-232/422/485
Parallel Port	Supports SPP/EPP/ECP mode
Universal Serial Bus	USB2.0 x 7 (Internal 5x2-pin header x 3 up to 6 USB, USB2.0 type A on bracket x 1)
PS/2 Port	Keyboard x 1, Mouse x 1
Audio (Daughter Board)	HDAC Daughter board (optional) , Mic-in/Line-in/Line-out/CD-in
IrDA	Supports IrDA header x 1



## Packing List

- **1709070800**  
SATA Cable, 7P Pitch 1.27mm, 80cm, with Lock
- **1701340704**  
Flat Cable, 34P, 70cm, Gray For FDD
- **1701400453**  
Cable, 40P 2.54mm IDC with Nose with Fold, 40P 2.54mm IDC with Nose with Fold, 45cm, Blue ATA-100
- **1700060192**  
Cable, 6P-6P-6P, 19cm, Ivory PS2/KB & Mouse
- **1701260307**  
Flat Cable, 9P/DB9P Male & 25P DB25P Female, 10P 2mm & 26P 2mm/IDC NO
- **1701100305**  
Flat Cable, 9P/DB9P Male, 10P/2.0mm Pitch/IDC No Fold, 30cm, with Bracket
- **1709100201**  
USB Cable, 20cm 2.0mm, with Bracket
- **Product CD**
- **FSB-525G**

## Ordering Information

- **TF-FSB-525G-A10-G2**  
Full-size PICMG 1.0 CPU Card, Onboard Intel® D525, VGA, 2 PCI-E Gigabit Ethernet, 7 USB, 3 SATA 3.0Gb/s, CompactFlash™, ATX , Rev A1.0
- **TF-FSB-425G-A10-G2**  
Full-size PICMG 1.0 CPU Card, Onboard Intel® D425, VGA, 2 PCI-E Gigabit Ethernet, 7 USB, 3 SATA 3.0Gb/s, CompactFlash™, ATX , Rev A1.0

## Dimension

Unit: mm

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## Passive Backplane Options

P/N	Description	Master Interface	Slots	Power Connector, ATX Extend Function
TF-BP-213RG-P4	Rackmount, PICMG, 13-slot R.PCI Backplane, 4 PCI/7 ISA, Single Segment, AT/ATX	PICMG	4/8/2 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2145G-P4	Rackmount, PICMG, 14-slot Backplane, 4 PCI/ 8 ISA, Single Segment, AT/ATX	PICMG	4/9/2 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2145G-P7	Rackmount, PICMG, 14-slot Backplane, 7 PCI/ 5 ISA, Single Segment, AT/ATX	PICMG	7/6/2 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2145G-P12	Rackmount, PICMG, 14-slot Backplane, 12 PCI/1 ISA Single Segment, AT/ATX	PICMG	12/2/2 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2085G-P4	Wallmount, PICMG, 8-slot Backplane, 4 PCI/ 2 ISA, Single Segment, AT/ATX	PICMG	4/3/2 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2085G-P7	Wallmount, PICMG, 8-slot Backplane, 7 PCI/ 0 ISA, Single Segment, AT/ATX	PICMG	7/0/1 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-206VG-P4	Rackmount, PICMG, 6-slot Backplane, 4 PCI/ 0 ISA, Single Segment, AT/ATX	PICMG	4/0/1 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-206VG-P2	Rackmount, PICMG, 6-slot Backplane, 2 PCI/ 3 ISA, Single Segment, ATX	PICMG	2/3/1 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2065G-P4	Wallmount, PICMG, 6-slot Backplane, 4 PCI, 2 ISA, Single Segment, ATX	PICMG	4/2/2 (PCI/ISA/PICMG)	AT, ATX, 3-pin ATX extend
TF-BP-2065G-P3	Wallmount, PICMG, 6-slot Backplane, 3 PCI, 3 ISA, Single Segment, ATX	PICMG	3/3/2 (PCI/ISA/PICMG)	ATX, 3-pin ATX extend

## Optional Accessories

- **TF-PER-U01H**  
HD Codec Audio Daughter Board
- **1703030501**  
Supports ATX Power from Backplane to CPU Card
- **1702030301**  
ATX Power Simulation AT Power Switch Wire
- **1701400800**  
PATA100 Cable 80cm
- **1709070780**  
SATA Cable 78cm
- **1702043000**  
ATX 12V Extension Cable
- **1701260307**  
1 Serial port + 1 Parallel port with Bracket
- **1701100305**  
1 Serial port with Bracket