

PQ7-M106

Qseven Module Based on Intel® Atom® Processor E3800 Series with DDR3L SDRAM up to 8GB, LVDS/eDP and eMMC



FEATURES

- Intel® Atom® Processor E3800 Series(Bay Trail)
- On Board DDR3L SDRAM up to 8GB
- eMMC up to 64GB
- DP/HDMI and LVDS
- GbE, 2x SATA 3Gb/s, 1x USB 3.0, 6x USB 2.0, 3x PCIe x1



PQ7-M106 is designed with Intel® Atom® Processor E3800 Series and qualified components for wide-temp support. This series also supports LVDS, Dual-Channel DDR3L, as well as eMMC soldered on board to be a cost effective collection.

General

General				
Product	PQ7-M106			
Form Factor	Qseven® 2.0, 70 x 70 mm			
Processor	Intel® Atom®			
	E3845	E3827	E3825	E3815
Core	4	2	2	1
Freq.	1.91 GHz	1.75 GHz	1.33 GHz	1.46 GHz
Turbo	N/A	N/A	N/A	N/A
Cache	2MB	1MB	1MB	512KB
Processor Graphics	Intel® HD Graphics for Intel Atom® Processor Z3700 Series	Intel® HD Graphics for Intel Atom® Processor Z3700 Series	Intel® HD Graphics for Intel Atom® Processor Z3700 Series	Intel® HD Graphics for Intel Atom® Processor Z3700 Series
Graphics Base Frequency	542 MHz	542 MHz	533 MHz	400 MHz
Graphics Max Dynamic Frequency	792 MHz	792 MHz	533 MHz	400 MHz
HW Encoding	H.264			
HW Decoding	H.264, JPEG, MJPEG, MVC, MPEG-2, WMV9, VC1			
HW Acceleration	DX*11, OpenGL* 3.0 (OGL 3.0), OpenCL* 1.2 (OCL 1.2), OpenGL* 2.0(OGLES* 2.0)			
Processor TDP	10W	8W	6W	5W
BIOS	AMI Aptio5 BIOS			
ECC Memory Supported	NO			
Memory	On Board DDR3L Non-ECC up to 8GB			

I/O Interface

SATA	2x SATA II		
USB	6 x USB2.0 with 1x Opt. to USB3.0		
Ethernet	1x Gbe (Intel® I210IT)		
Serial I/O	LPC	1x LPC	
	I ² C	Baud rate: 400KHz	
	SMBus	Baud rate: 100KHz	
	UART	1x UART	
PEG	N/A		
PCI Express	1x PCIe x4 8x PCIe x1		
Display	LVDS	eDP	2560x1600
	HDMI	DP	2560x1600
		HDMI	1920x1080
Security	N/A		

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MECHANICAL & ENVIRONMENT

Dimension	70 x 70mm
Power DC IN	5V DC ±5%
Storage Temperature	-40°C to 85°C
Operating Temperature	-40°C to 85°C
Certification	Contact us
MTBF	NA
Vibration	NA
OS	Windows 7/8/8.1/10

ORDERING GUIDE

Product	Ordering P/N	Status
PQ7-M106-E3845-4G-8G	AB7-3031Z	Available
PQ7-M106-E3827-4G-8G	Contact us	Available
PQ7-M106-E3825-2G-4G	Contact us	Available
PQ7-M106-E3815-2G-NA	AB7-3045Z	Available
PQ7-M106-E3805-2G-4G	Contact us	Available
Other Memory/Storage Configuration	Contact us	Available

Accessory	Ordering P/N	Status
Heat Spreader	B8308530	Available
Heat Sink Kit	B8309050	Available
PQ7-C201	AB1-3B45	Available

BLOCK DIAGRAM

PQ7-M106

QSEVEN 2.0
70x70mm

AT/ATX Mode

-40° C ~ +85° C

5V±5% DC-in

