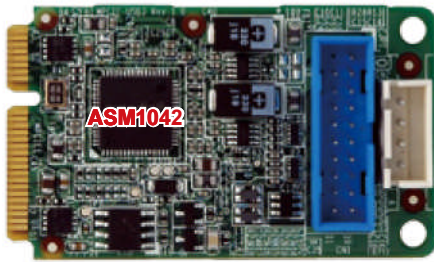


MPCIE-USB3 PCIe Mini USB 3.0 adapter card, RoHS

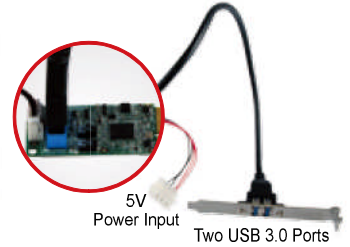


IEI USB 3.0 Expanded Solution

New

The MPCIE is applied to add additional super speed USB 3.0 ports for the motherboard with a PCIe Mini slot.

Motherboard with PCIe Mini Slot



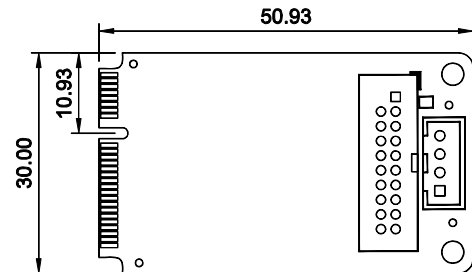
Specifications

- ◆ Form Factor: PCI Express Mini card
- ◆ USB 3.0 Controller: Asmedia ASM1042
- ◆ Internal Connector: 1 x 20-pin (2x10) box header
- ◆ Power Jack: 1 x 4-pin box header
- ◆ Compatible OS: Windows® 2000/XP/Server 2003/Server 2008/Vista/7, Linux kernel version 2.6.32 above
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Operating Humidity: 5% ~95%, non-condensing
- ◆ Dimensions (LxW): 50mm x 30mm
- ◆ Weight: 70g

Features

1. Support two external USB 3.0 type A ports
2. USB 3.0 provides up to 5Gbps of transferring rate
3. Backward compatible with USB 2.0 and USB 1.0/1.1 devices
4. Fully compliant with USB 3.0 rev 1.0 specifications and Intel® xHCI rev 0.96 specifications, with transfer rates up to 5Gbps
5. Compliant with PCI Express Mini specification 1.2

Dimensions (mm)



Packing List

- 1 x MPCIE-USB3 PCIe Mini USB 3.0 adapter card
- 1 x Dual USB 3.0 type A port cable with bracket (P/N: 19800-010500-100-RS)
- 1 x Power Cable (P/N: 32102-020900-100-RS) 1 x QIG

Ordering Information

Part No.	Description
MPCIE-USB3-R10	PCIe Mini USB 3.0 adapter card, RoHS
19800-010500-100-RS	Dual USB 3.0 type A port cable with bracket

IEI Trusted Platform Module (TPM)

Hardware base security solution for data protection and reliable authentication via TPM that stores key, passwords and digital certificates.

H/W Features Comparison

Solution	Infineon SLB9635 TT1.2
Features	
Secure Startup	Root of Trust Measurement of early boot devices
Anti H/W Attack	Sensors and active shield
TSS API Support	MS-CAPI/PKCS#11, #12
H/W Certification	
Management Tool Function	<ol style="list-style-type: none"> 1. TPM management 2. File&Folder En/De-cryption 3. Personal secure drive 4. Secure Email 5. Key transferring 6. Security policy configuration
Market Segment	Complete TPM1.2 function
TCG Specification	TCG 1.2 compliance trusted platform module
Interface	Low pin count
Software Structure	TCG software stack 1.2 complaint
Cryptographic Accelerator	HAS-1/RSA algorithm

IEI SBC with TPM support

Form factor	Model name	Form factor	Model name
ATX	IMBA-H610	Mini-ITX	KINO-QM770
	IMBA-C2060		KINO-AQ670
	IMBA-Q670		KINO-DH610
	IMBA-G410		KINO-AH611
	IMBA-G412ISA		KINO-AH612
	IMBA-XQ354		KINO-PV-D5253/D4253
microATX	IMBA-9454	KINO-QM670	KINO-HM551
	IMB-H610	KINO-780AM2	KINO-780EB
	IMB-H612	NOVA-PV-D5251/D4251	NOVA-945GSE
	IMB-C2060	NANO-QM770	NANO-HM551
	IMB-Q670	NANO-PV-D5251/D4251	WSB-H610
	IMB-Q354	WSB-PV-D5251/D4251	WSB-Q354
PICMG1.3	IMB-9454	PICMG1.0	WSB-9452
	SPCIE-C2060		
	PCIE-H610		
Half-size SBC	PCIE-Q670		
	PCIE-Q350		
	PCIE-9652		
	PIC0e-B650		
	PIC0e-HM650		

Pin Assignment



Pin	Signal	Pin	Signal
1	LCLK	11	LAD0#
2	GND	12	GND
3	LFRAME#	13	SCL
4	KEYWAY	14	SDA
5	LRST#	15	SB3V
6	VCC5	16	SERIRQ
7	LAD3#	17	GND
8	LAD2#	18	CLKRUN#
9	VCC3	19	LPCPD#
10	LAD1#	20	LDRQ#

TPM OS Supported List

OS Supported	Infineon
Windows®	Windows® XP SP2, Windows® 7, Vista
Linux	Fedora 6 (Kernel 2.6.8 or above)

Ordering Information

Model Name	Description
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17

1 Industrial Computing Solutions

2 Video Capture Solutions

3 Embedded Computing Solutions

4 ORing Network Communication

5 Power Supply/Peripherals

6 Panel Solutions Introduction