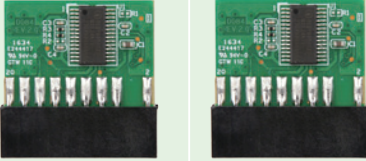



# IEI Trusted Platform Module (TPM)

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

## H/W Features

<b>Solution</b>	<b>Infineon</b> <b>SLB9635 TT1.2</b>	<b>SLB9665TT2.0</b>
<b>Features</b>		
<b>Secure Startup</b>	Root of Trust Measurement of early boot devices	
<b>Anti H/W Attack</b>	Sensors and active shield	
<b>TSS API Support</b>	MS-CAPI/PKCS#11, #12	
<b>H/W Certification</b>		
<b>Management Tool Function</b>	<ol style="list-style-type: none"> <li>1. TPM management</li> <li>2. File &amp; Folder En/De-cryption</li> <li>3. Personal secure drive</li> <li>4. Secure Email</li> <li>5. Key transferring</li> <li>6. Security policy configuration</li> </ol>	
<b>Market Segment</b>	Complete TPM1.2/2.0 function	
<b>TCG Specification</b>	TCG 1.2/2.0 compliant trusted platform module	
<b>Interface</b>	Low pin count	
<b>Software Structure</b>	TCG software stack 1.2 complaint	
<b>Cryptographic Accelerator</b>	HAS-1/RSA algorithm	

## IEI SBC with TPM support

Form factor	Model name	Form factor	Model name
PICMG1.3	PCIE-Q170-i2*	Micro-ATX	IMB-H110*
	SPCIE-C236-i2*		IMB-Q870-i2
	SPCIE-C2260-i2		IMB-H810-i2
	SPCIE-C2160		IMB-Q770
	SPCIE-C2060		IMB-Q670
	PCIE-H810		IMB-H610A/H610B
	PCIE-Q670		tKINO-BW
PICMG1.0	PCIE-H610	Mini-ITX	KINO-DBT
	WSB-H810		KINO-SE/KBN-i2
	WSB-H610		KINO-DH810
Half-size PCIe	WSB-PV-D4251/D5251		eKINO-BT
	PICOe-B650		KINO-ABT-i2
Half-size PCISA	PICOe-HM650		KINO-DA750-i2
	PCISA-BT		KINO-AA750-i2
ATX	IMBA-C2360-i2*		KINO-AQ870
	IMBA-Q170-i2*		KINO-DQM871-i1
	IMBA-H110*		KINO-QM770
	IMBA-BDE		KINO-DH610
	IMBA-H810	KINO-AH611	
	IMBA-C2260-i2	KINO-AH612	
	IMBA-Q870-i2	KINO-QM670	
	IMBA-Q770	5.25" SBC	NOVA-PV-D5251
	IMBA-H610	EPIC SBC	NANO-QM871
	IMBA-C2060		NANO-QM770
IMBA-Q670	NANO-HM650		

\* TPM 2.0 is supported in these models.

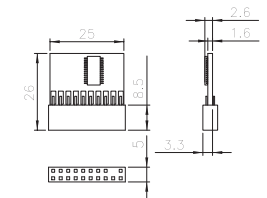
## Pin Assignment

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

## Ordering Information

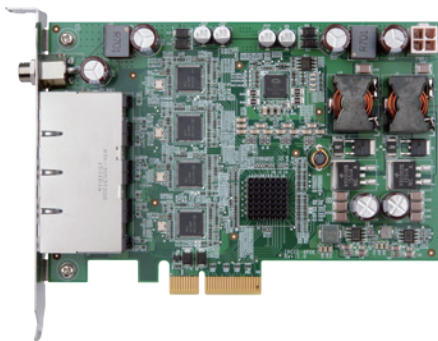
Model Name	Description
TPM-IN01-R20	20-pin Infineon TPM1.2 module, software management tool, firmware v3.17
TPM-IN02-R20	20-pin Infineon TPM2.0 module, software management tool, firmware v5.5

## Dimensions (mm)



# IPCIE-4POE

PCI Express Power over ethernet frame grabber card, 4-port 1000 Base(T), 802.3af compliant



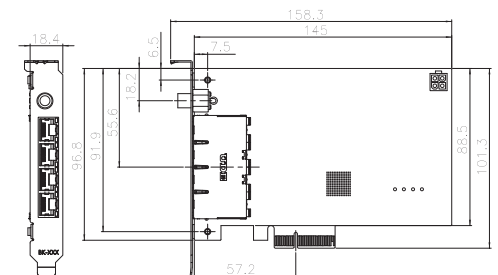
## Features

- PCI Express® x4 compliant
- Support for IEEE 802.3af for PoE (Power over Ethernet) with 15.4 watts per port
- Support link aggregation/jumbo frames (9 Kbyte)
- Supports 12~24 AT/ATX DC input power.

## Packing List

- 1 x IPCIE-4POE card
- 1 x QIG
- 1 x Utility CD

## Dimensions (mm)



## Specifications

- ◆ Interface: PCI Express® x4
- ◆ Ethernet: Intel® i210 AT controller, 9kB jumbo frame, IEEE 802.3az, IEEE1588
- ◆ PoE Capability: IEEE 802.3af, 15.4W / 48V DC per port
- ◆ PWR Input: 12~24V DC input, Internal DC input (2x2 ATX), External DC input (Φ2.1/Φ5.5)
- ◆ Operating Temperature: 0°C ~ 60°C
- ◆ Storage Temperature: -10°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing

## Ordering Information

Part No.	Description
IPCIE-4POE-R10	PCI Express power over ethernet frame grabber card, 4-port 1000 Base(T), 802.3af compliant
63040-010090-120-RS	Adapter power, FSP, FSP090-DIEBN2, 9NA0904712, Vin: 90~264VAC, 90W, Plug=7.5mm, Cable=1500mm, Erp (no load 0.5W), Vout: 19VDC, Φ2.1/Φ5.5/lock, CCL, RoHS
63040-010065-200-RS	Adapter power, FSP, FSP065-REBN2, 9NA0654709, Vin: 90~264VAC, 65W, Dim: 46.3x108.3x30mm, Plug=7.5mm, Cable=1500mm, Erp (no load 0.1W), Vout: 19VDC, Φ2.1/Φ5.5/lock, CCL, RoHS