CPU Cooler *High performance thermal solutions*

Choosing the wrong CPU cooler for a system can lead to serious overheating, resulting in system shutdown and potential damage to CPUs.
For industrial applications, the following CPU coolers fit the needs of various operating environments, where different levels of cooling are required.

	IEI Special Desktop Core™ CPU Cooler				
Where Used	For spacial models: SPCIE-C2260, PCIE-Q870, PCIE-H810, WSB-H810, KINO-AQ870				
Model Name	CF-1150SA-R10	CF-1150SB-R11	CF-1150SC-R20	CF-1150SE-R11	CF-1150SF-R10
Description	IEI customized cooler for LGA1150 Intel® CPU, RoHS		IEI customized cooler for LGA1150 Intel® CPU, 1U chassis compatible, RoHS	IEI customized cooler for LGA1150 Intel® CPU, RoHS	IEI customized cooler for LGA1150 Intel® CPU, RoHS
CPU Solution	Intel® Core™ i7/i5	Intel® Core™ i7/i5	Intel® Core™ i7/i5	Intel® Core™ i7/i5	Intel® Core™ i7/i5
Socket Solution	LGA1150/LGA1151	LGA1150/LGA1151	LGA1150/LGA1151	LGA1150/LGA1151	LGA1150/LGA1151
Dimensions (mm)	83 x 83 x 57	96 x 82 x 60	105 x 80 x 23.7	107 x 61 x 60	107 x 70 x 35
Material	Al	Al	Cu	Cu	Al
Bearing Type	Ball And sleeve	Two-ball	Two-ball	Two-ball	Two-ball
Capability (Watt)	95 W	65 W	65 W	95 W	54 W
Fan Speed (RPM)	4200	3500	5500	4200	4500
Noise Level (dBA)	40	41	55	36	39
Life Expectancy (hrs)	40,000	50,000	50,000	50,000	50,000
Weight	330 g	286 g	406 g	812 g	220 g

	Intel® Standard Desktop Core™ CPU Cooler			
	LGA115X (LGA1150/LGA1151/LGA1155/LGA1156)			
Model Name	CF-1156A-RS-R11	CF-115XE-R10	CF-1156C-RS	CF-1156D-RS
Description	High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible	High performance LGA1155/LGA1156 CPU cooler, RoHS	Low power LGA1155/LGA1156 cooler kit, RoHS	
CPU Solution	Intel® Core™ i5/i3	Intel® Xeon®/Core™ i7/i5/i3	Intel® Core™ i5/i3	Intel® Core™ i7/i5/i3
Socket Solution	LGA115X (LGA1150/LGA1151/LGA1155/LGA1156)			
Dimensions (mm)	89 x 92.6 x 27.4	91 x 91 x 84	90 x 90 x 33	90 x 90 x 33
Material	Cu	Al	Al	Cu+Al
Bearing Type	Two-ball	Ball and Sleeve	Two-ball	Two-ball
Capability (Watt)	73 W	95 W	45 W	65 W
Fan Speed (RPM)	5500	4200	3000	3000
Noise Level (dBA)	51	40	33.4	33.4
Life Expectancy (hrs)	50,000	40,000	50,000	50,000
Weight	422 g	301 g	192 g	227 g

CPU Cooler *High performance thermal solutions*

Choosing the wrong CPU cooler for a system can lead to serious overheating, resulting in system shutdown and potential damage to CPUs.

For industrial applications, the following CPU coolers fit the needs of various operating environments, where different levels of cooling are required.

	Desktop Core™ CPU Cooler		Desktop CPU Cooler		
			 Heat Pipes Inside		
	LGA1355/1356/2011		**LGA775 Cooler**		
Model Name	CF-2011A-RS	CF-2011B-RS	CF-775A-RS	CF-775B-RS-R11	CF-520-RS-R11
Description	High performance LGA1355/1356/2011 cooler kit		High performance LGA 775 CPU cooler, with two copper pipes, RoHS	High performance 1U LGA 775 CPU cooler, with 7010 fan, RoHS	High performance LGA 775 CPU cooler, RoHS
CPU Solution	Intel® Xeon® E5-2600		Intel® Core™2 Quad	Intel® Core™2 Duo	Intel® Core™2 Duo
Socket Solution	LGA2011	LGA2011	LGA 775	LGA 775	LGA 775
Dimensions (mm)	89 x 88 x 27.2	89 x 88 x 45.1	92 x 92 x 73	80.5 x 81 x 28.2	115 x 115 x 67
Material			Cu-Al	Cu	Aluminum alloy
Bearing Type	Two-ball	Ball and sleeve	Rifle	Two-ball	Two-ball
Capability (Watt)	**130W**	**130W**	**130 W**	**90 W**	**115 W**
Fan Speed (RPM)	5500	4500	3600	4250	4500
Noise Level (dBA)	55	42	36.6~39.6	40	47.5~51.5
Life Expectancy (hrs)	50000	40000	40,000	50,000	70,000
Weight	55g	50g	492 g	600 g	635 g

	Desktop CPU Cooler	CPU Cooler	Mobile Core™ i7 CPU Cooler		Mobile CPU Cooler
	Pentium® 3 Cooler	**Blower**	**PGA989**		**Pentium® M Cooler**
Model Name	CF-370A-RS	BF-02-RS	CF-989A-RS-R12	CF-989B-RS-R11	CF-479B-RS
Description	High performance slim type Socket 370 CPU cooler, RoHS	Bracket cooling fan, RoHS	High performance Socket-G (PGA989) smart fan CPU cooler, RoHS	High performance Socket-G (PGA989) CPU cooler, aluminum, RoHS	High performance Socket 479, M and P Intel® Pentium® M CPU cooler, RoHS
CPU Solution	Intel® Pentium® 3	Breaket cooling fan	Intel® Core™ i7/i5/i3	Intel® Core™ i7/i5/i3	Intel® Pentium® M, Core™2 Duo (Mobile)
Socket Solution	Socket 370		PGA989	PGA989	Socket 479
Dimensions (mm)	50 x 52 x 20	112 x 90 x 21	60 x 60 x 27.5	60 x 60 x 27.5	50 x 50 x 16
Material	Cu-Al	Plastic	Cu	Al	Al
Bearing Type	Two-ball	One-ball	Two-ball	Two-ball	Two-ball
Capability (Watt)	**40 W**		**55 W**	**50 W**	**50 W**
Fan Speed (RPM)	5500	2800	4800	4800	5500
Noise Level (dBA)	32.1	28	40	40	30.1
Life Expectancy (hrs)	40,000	45,000	50,000	50,000	50,000
Weight	62 g	107.5 g	255 g	26 g	19 g

Industrial SATADOM Series

■ The world's smallest high-speed SATADOM

The revolutionary form factor of SATADOM has been widely adopted by industrial and embedded system makers across the globe. With in-house designed SATA 6Gb/s controller, the SATADOM provides you not only the fastest read/write speed but also stable data transfer. Moreover, to address customer's challenging requirements, we have released a series of the smallest SATADOM which fits various kinds of compact systems. Here, we recommend five models by different heights. For the low-profile 1U system use, you can choose SL 3SE, SH 3SE, and SH 3ME.

■ SATA 6Gb/s Solutions

Powerful Performance
SATA 6Gb/s devices have 191% higher performance than SATA 3Gb/s devices.

Less Power Consumption
The advanced idle mode helps to save up to 35% of energy when system stays in idle, therefore the battery runtime increases and the system requests less power consumption than SATA 3Gb/s.

Greater Reliability
The in-house designed SATA 6Gb/s controller offers an excellent signal quality during data transfer, enhancing the system compatibility and stability.

Easier Use
Along with upgrading to SATA 6Gb/s, the one-touch activation mode of iSMART 3.2 can save hours of setup and maintenance time.

Model Name	IFM-3010V	IFM-3320M	IFM-3010L	IFM-3010H	IFM-3020-HM
Picture					
Key Features	1. Vertical version 2. Anti-vibration mechanical design	1. Vertical version 2. Writing protection 3. Anti-vibration mechanical design	1. SATA 6Gb/s interface 2. iSMART disk health monitoring 3. Intelligent error recovery system 4. Excellent data transfer speed 5. Zero mechanical interference 6. Anti-vibration mechanical design	1. Horizontal version 2. Only exposes 12mm height on the motherboard after installation	1. Low profile horizontal design 2. High IOPS
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Flash Type	SLC	MLC	SLC	SLC	MLC
Capacity (GB)	1GB~32GB	8GB~128GB	1GB~32GB	1GB~32GB	8GB~128GB
Sequential R/W	300/130	355/135	300/130	300/130	200/75
Max. Power Consumption	0.65W (5V x 130mA)	1W (5V x 200mA)	0.65A (5V x 130mA)	0.65W (5V x 130mA)	1.8W (5V x 370mA)
Thermal Sensor	Wide temperature model only	Wide temperature model only	Wide temperature model only	Wide temperature model only	Wide temperature model only
ATA Security	Yes	Yes	Yes	Yes	Yes
S.M.A.R.T	Yes	Yes	Yes	Yes	Yes
Dimensions (mm)	20.9 x 39.5 x 7.9	25.3 x 41.5 x 6.8	32.5 x 29.5 x 8.0	18.1 x 30.5 x 12	18.0 x 30.3 x12.5
Environment	Vibration: 20G@7~2000Hz, Shock: 1500G@0.5ms, Storage Temperature: -55°C ~ +95°C, MTBF: >3 million hours				
P/N — Standard (0°C~+70°C)	IFM-3010IS-1GB IFM-3010IS-2GB IFM-3010IS-4GB IFM-3010IS-8GB IFM-3010IS-16GB IFM-3010IS-32GB	IFM-3320IM-8GB-R20 IFM-3320IM-16GB-R20 IFM-3320IM-32GB-R20 IFM-3320IM-64GB-R20 IFM-3320IM-128GB-R20	IFM-3010IL-1GB IFM-3010IL-2GB IFM-3010IL-4GB IFM-3010IL-8GB IFM-3010IL-16GB IFM-3010IL-32GB	IFM-3010IPS-1GB IFM-3010IPS-2GB IFM-3010IPS-4GB IFM-3010IPS-8GB IFM-3010IPS-16GB IFM-3010IPS-32GB	IFM-3020IPSM-8GB-R20 IFM-3020IPSM-16GB-R20 IFM-3020IPSM-32GB-R20 IFM-3020IPSM-64GB-R20 IFM-3020IPSM-128GB-R20
P/N — Wide Temperature (-40°C~+85°C)	IFM-3010WS-1GB IFM-3010WS-2GB IFM-3010WS-4GB IFM-3010WS-8GB IFM-3010WS-16GB IFM-3010WS-32GB	IFM-3320WM-8GB-R20 IFM-3320WM-16GB-R20 IFM-3320WM-32GB-R20 IFM-3320WM-64GB-R20 IFM-3320WM-128GB-R20	IFM-3010WL-1GB IFM-3010WL-2GB IFM-3010WL-4GB IFM-3010WL-8GB IFM-3010WL-16GB IFM-3010WL-32GB	IFM-3010WPS-1GB IFM-3010WPS-2GB IFM-3010WPS-4GB IFM-3010WPS-8GB IFM-3010WPS-16GB IFM-3010WPS-32GB	IFM-3020WPSM-8GB-R20 IFM-3020WPSM-16GB-R20 IFM-3020WPSM-32GB-R20 IFM-3020WPSM-64GB-R20 IFM-3020WPSM-128GB-R20

Industrial SSD Series

■ Breakthrough Technology of IFD-2530ISM & IFD-2530ISMD

With the release of the brand-new designed firmware algorithm, IFD-2530ISM and IFD-2530ISMD offer outstanding read and write performance and extended lifespan, and are compliant with the JEDEC 219 specifications. In addition, with the iData Guard Technology, IFD-2530ISM and IFD-2530ISMD support data integrity in the event of abnormal power failure. The wide operating temperature ranges from -40 °C to 85 °C.

Features of IFD-2530ISM & IFD-2530ISMD

IFD-2530ISM and IFD-2530ISMS provide a wide range demand of capacity. IFD-2530ISMD even supports large capacity up to 2TB.

	IFD-2530ISM	IFD-2530ISMD
DRAM-less Design	●	
Price	●	
Random Transfer Performance	● R: 31,000 IOPS/W: 40,000 IOPS (128GB)	● R: 70,000 IOPS/W: 64,000 IOPS (128GB)
Easy to Design in Small Form Factors	●	
Low Power Consumption	●	●
TRIM	●	●

Model Name	2.5" SATA 6Gb/s IFD-2520IS	2.5" SATA 6Gb/s IFD-2530ISMD	2.5" SATA 6Gb/s IFD-2530AM
Picture			
Key Features	1. Intelligent error recovery system 2. Excellent data transfer speed 3. Enhanced power cycling management	1. EverGreen L^2 architecture 2. 7mm height mechanical design 3. Excellent random performance	1. 7mm height mechanical design 2. Low power consumption 3. Budget-friendly MLC-based solution
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s
Flash Type	SLC	MLC	MLC
Capacity (GB)	8GB~128GB	8GB~1TB	8GB~256GB
Sequential R/W	510/340	520/450	430/190
Max. Power Consumption	2.2W (5V x 450mA)	5W (5V x 1A)	1.7W (5V x 335 mA)
Thermal Sensor	Wide temperature model only	Wide temperature model only	Wide temperature model only
ATA Security	Yes	Yes	Yes
S.M.A.R.T	Yes	Yes	Yes
Dimensions (mm)	69.8 x 100.1 x 9.3	70.0 x 100.0 x 6.8	69.8 x 100.1 x 7.0
Environment	Vibration: 20G@7~2000Hz, Shock: 1500G@0.5ms, Storage Temperature: -55°C ~ +95°C, MTBF: >3 million hours		
P/N — Standard (0°C~+70°C)	IFD-2520IS-8GB IFD-2520IS-16GB IFD-2520IS-32GB IFD-2520IS-64GB IFD-2520IS-128GB	IFD-2530ISMD-8GB-R10 IFD-2530ISMD-16GB-R10 IFD-2530ISMD-32GB-R10 IFD-2530ISMD-64GB-R10 IFD-2530ISMD-128GB-R10 IFD-2530ISMD-256GB-R10 IFD-2530ISMD-512GB-R10 IFD-2530ISMD-1TB-R10	IFD-2530AM-8GB-R20 IFD-2530AM-16GB-R20 IFD-2530AM-32GB-R20 IFD-2530AM-64GB-R20 IFD-2530AM-128GB-R20 IFD-2530AM-256GB-R20
P/N — Wide Temperature (-40°C~+85°C)	IFD-2520WT-8GB IFD-2520WT-16GB IFD-2520WT-32GB IFD-2520WT-64GB IFD-2520WT-128GB	IFD-2530ISMD-8GB-R10 IFD-2530ISMD-16GB-R10 IFD-2530ISMD-32GB-R10 IFD-2530ISMD-64GB-R10 IFD-2530ISMD-128GB-R10 IFD-2530ISMD-256GB-R10 IFD-2530ISMD-512GB-R10 IFD-2530ISMD-1TB-R10	IFD-2530AWM-8GB-R20 IFD-2530AWM-16GB-R20 IFD-2530AWM-32GB-R20 IFD-2530AWM-64GB-R20 IFD-2530AWM-128GB-R20 IFD-2530AWM-256GB-R20

Industrial CFast & CF Card Series

■ Similar size, different read and write speeds

With a similar size, CFast is mainly different from CF card in its interface, connector, and most importantly, faster read and write speeds. CFast, with SATA 6Gb/s interface and 7-pin plus 17-pin connector, offers data transfer rates of sequential reads up to 470 MB/sec and of sequential writes up to 250 MB/sec. CF card, with PATA interface and 50-pin CF connector, offers data transfer rates of sequential reads up to 100 MB/sec and of sequential writes up to 95 MB/sec.

■ ATA security for CF card

The optional ATA Security Mode feature set is a password system that restricts access to user data stored on a device. The purpose is to prevent unauthorized access or a virus.

S6:Tx+ S5:Tx-
S3:Rx- S2:Rx+

CFast 3SE: Pin Directions

Pin S6: Tx+   Pin S3: Rx-
Pin S5: Tx-   Pin S2: Rx+

P=1.27mm
1.60 mm± 0.05
0.99mm± 0.05
1.01mm± 0.07   1.01mm± 0.07
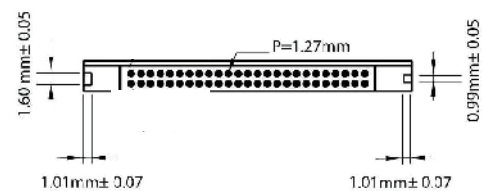
iCF9000: IDE Pin

Model Name		ICT-2000 AS	ICT-2000 AM	ICF-9000	ICF-2000	ICF-1000	
Picture							
Capacity		2GB~64GB	8GB~128GB	4GB~32GB	512MB~8GB	128MB~8GB	128MB~16GB
Sequential R/W (Max.)		285/260 MB/sec	310/240 MB/sec	110/100 MB/sec	40/30 MB/sec	40/28 MB/sec	30/15 MB/sec
Flash Type		SLC	MLC	SLC	SLC	SLC	SLC
IDE Transfer Mode		Yes	Yes	PIO mode 0-6 MwDMA mode 0-4 UltraDMA mode 0-7	PIO mode 0-4 MwDMA mode 0-4 UltraDMA mode 0-4	PIO mode 0-4 MwDMA mode 0-4 UltraDMA mode 0-4	PIO mode 0-6 MwDMA mode 0-4 UltraDMA mode 0-4
Operating Temp.		0°C~+70°C (Standard)/-40°C~+85°C (Industrial)					
Storage Temp.		-40°C~+100°C		-55°C~+95°C			-40°C~+100°C
Vibration/Shock (7/2000Hz)/(0.5ms)		Vibration: 15 (G), 10~2000 (Hz) Shock: 1,500 G, 0.5 ms		1500G/0.5ms			1500G/0.5ms
DC Power Input		Supply voltage: 3.3V		ICF: +3.3V~+5V single power supply operation			Supply voltage: 3.3V & 5V
Power Consumption (Max.)		390mA	525mA	0.75W (5V x 125mA@210mA)			95 mA
Dimensions (mm)		42.8 x 36.4 x 3.6		42.8 x 36.4 x 3.3			42.8 x 36.4 x 3.3
ATA Security		Yes	Yes	Yes	Yes	Yes	Yes
S.M.A.R.T		Yes	Yes	Yes	Yes	Yes	No
P/N	STD (0°C~+70°C)	ICT-2000IA-2GB ICT-2000IA-4GB ICT-2000IA-8GB ICT-2000IA-16GB ICT-2000IA-32GB ICT-2000IA-64GB	ICT-2000IAM-8GB ICT-2000IAM-16GB ICT-2000IAM-32GB ICT-2000IAM-64GB ICT-2000IAM-128GB	ICF-9000CD-4GB ICF-9000CD-8GB ICF-9000CD-16GB ICF-9000CD-32GB	ICF-2000IPD-512MB ICF-2000IPD-1GB ICF-2000IPD-2GB ICF-2000IPD-4GB ICF-2000IPD-8GB	ICF-1000IPD-1GB-R20 ICF-1000IPD-2GB-R20 ICF-1000IPD-4GB-R20 ICF-1000IPD-8GB-R20	ICF-1000IA-128MB-R20 ICF-1000IA-256MB-R20 ICF-1000IA-512MB-R20 ICF-1000IA-1GB-R20 ICF-1000IA-2GB-R20 ICF-1000IA-4GB-R20 ICF-1000IA-8GB-R20
	WT (-40°C~+85°C)	ICT-2000WA-2GB ICT-2000WA-4GB ICT-2000WA-8GB ICT-2000WA-16GB ICT-2000WA-32GB ICT-2000WA-64GB	ICT-2000WAM-8GB ICT-2000WAM-16GB ICT-2000WAM-32GB ICT-2000WAM-64GB ICT-2000WAM-128GB	ICF-9000WD-4GB ICF-9000WD-8GB ICF-9000WD-16GB ICF-9000WD-32GB	ICF-2000WPD-512MB ICF-2000WPD-1GB ICF-2000WPD-2GB ICF-2000WPD-4GB ICF-2000WPD-8GB	ICF-1000WPD-1GB-R20 ICF-1000WPD-2GB-R20 ICF-1000WPD-4GB-R20 ICF-1000WPD-8GB-R20	ICF-1000WA-128MB-R20 ICF-1000WA-256MB-R20 ICF-1000WA-512MB-R20 ICF-1000WA-1GB-R20 ICF-1000WA-2GB-R20 ICF-1000WA-4GB-R20 ICF-1000WA-8GB-R20

1
Industrial
Computing
Solutions

2
Video
Capture
Solutions

3
Industrial
Computer
Chassis

4
Open
Frame
Monitor

5
Power Supply/
Peripherals

6
All-in-One
System

Industrial Mini PCIe DOM & mSATA Series

■ Co-layout design of Mini PCIe DOM and mSATA

For manufacturers or system integrators, the exciting benefit is they can have a circuit board with co-layout design of Mini PCIe DOM and mSATA. This feature allows users to enjoy wider applications by installing optional Mini PCIe DOM or mSATA in the same placement site.

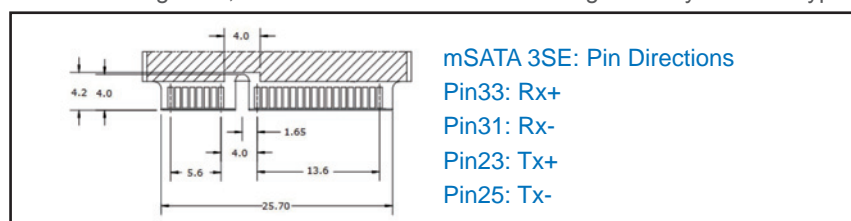## ■ Mini PCIe DOM: For conventional main board, better performance than CF card

We have realized IPC customers need a steady supply for their design-in cases by using Mini PCIe DOM or CF card as boot drive or storage. However, Mini PCIe DOM obviously has better performance in read/write over 4 times than CF card. Boasting its easy use in plug-and-play and driverless (Windows XP and above) capabilities, the Mini PCIe DOM is no doubt the best choice for the conventional motherboard. In the following table, we recommend one cost-effective MLC model and one reliable SLC model.

mini PCIe DOM 1ME: Pin Directions
Pin33: PETp0
Pin31: PETn0
Pin23: PERn0
Pin25: PERp0
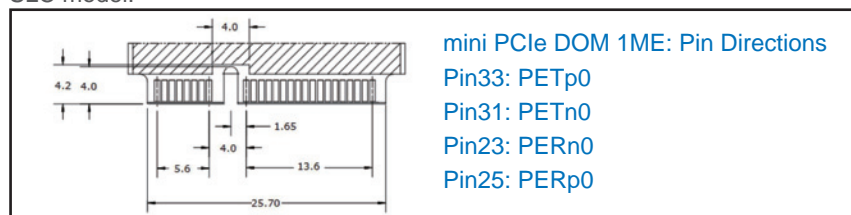
■ mSATA: For space-limited main board, up to read/write speed of 470/220 MB/sec

Nowadays, more and more compact gadgets are designed to satisfy eager users. Smaller than a business card, the mSATA has become the must-have storage to deliver instant data transfer.

In the following table, we recommend five models categorized by the flash type and size.

mSATA 3SE: Pin Directions
Pin33: Rx+
Pin31: Rx-
Pin23: Tx+
Pin25: Tx-

Model Name	IPE-5300IM/WM	IPE-5320IM/WM	IPE-5320AM/AWM	IPE-5200IP/WP	IPE-5210IPM/WPM
Picture					
Key Features	1. Excellent data transfer speed 2. High quality SLC-based solution	1. Excellent data transfer speed and IOPS 2. Budget- friendly MLC-based solution	1. Excellent data transfer speed and IOPS 2. Budget- friendly MLC-based solution	1. PCI Express interface 2. Driverless 3. Multi OS supported	1. PCI Express interface 2. Driverless 3. Multi OS supported
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	PCI Express Gen 1 x1	PCI Express Gen 1 x1
Flash Type	SLC	MLC	MLC	SLC	MLC
Capacity (GB)	2GB~32GB	8GB~512GB	8GB~256GB	4GB~64GB	8GB~256GB
Sequential R/W	470/250	340/200	430/170	170/120	130/100
Max.Power Consumption	1.2 W (3.3V x 360 mA)	1.3W (3.3V x 390 mA)	1.3W (3.3V x 390 mA)	1.2W (3.3V x 370mA)	1.2W (3.3V x 370mA)
Thermal Sensor	Wide temperature model only	Wide temperature model only	Wide temperature model only	Wide temperature model only	Wide temperature model only
ATA Security	Yes	Yes	Yes	Yes	Yes
S.M.A.R.T	Yes	Yes	Yes	Yes	Yes
Dimensions (mm)	29.8 x 50.8 x 4.4	29.8 x 50.8 x 4.4	29.8 x 50.8 x 4.4	30 x 50.95 x 4.4	30 x 50.95 x 4.4
Environment	Vibration: 20G@7~2000Hz, Shock: 1500G@0.5ms, Storage Temperature: -55°C ~ +95°C, MTBF: >3 million hours				
P/N	Standard (0°C~+70°C)	IPE-5300IM-1GB IPE-5300IM-2GB IPE-5300IM-4GB IPE-5300IM-8GB IPE-5300IM-16GB IPE-5300IM-32GB	IPE-5320IM-8GB-R20 IPE-5320IM-16GB-R20 IPE-5320IM-32GB-R20 IPE-5320IM-64GB-R20 IPE-5320IM-128GB-R20 IPE-5320IM-256GB-R20 IPE-5320IM-512GB-R20	IPE-5320AM-8GB-R20 IPE-5320AM-16GB-R20 IPE-5320AM-32GB-R20 IPE-5320AM-64GB-R20 IPE-5320AM-128GB-R20 IPE-5320AM-256GB-R20	IPE-5200IP-4G-R21 IPE-5200IP-8G-R21 IPE-5200IP-16G-R21 IPE-5200IP-32G-R21 IPE-5200IP-64G-R21	IPE-5210IPM-8GB-R10 IPE-5210IPM-16GB-R10 IPE-5210IPM-32GB-R10 IPE-5210IPM-64GB-R10 IPE-5210IPM-128GB-R10 IPE-5210IPM-256GB-R10
	Wide Temperature (-40°C~+85°C)	IPE-5300WM-1GB IPE-5300WM-2GB IPE-5300WM-4GB IPE-5300WM-8GB IPE-5300WM-16GB IPE-5300WM-32GB	IPE-5320WM-8GB-R20 IPE-5320WM-16GB-R20 IPE-5320WM-32GB-R20 IPE-5320WM-64GB-R20 IPE-5320WM-128GB-R20 IPE-5320WM-256GB-R20 IPE-5320WM-512GB-R20	IPE-5320AWM-8GB-R20 IPE-5320AWM-16GB-R20 IPE-5320AWM-32GB-R20 IPE-5320AWM-64GB-R20 IPE-5320AWM-128GB-R20 IPE-5320AWM-256GB-R20	WPE-5200WP-4G-R21 WPE-5200WP-8G-R21 WPE-5200WP-16G-R21 WPE-5200WP-32G-R21 WPE-5200WP-64G-R21	IPE-5210WPM-8GB-R10 IPE-5210WPM-16GB-R10 IPE-5210WPM-32GB-R10 IPE-5210WPM-64GB-R10 IPE-5210WPM-128GB-R10 IPE-5210WPM-256GB-R10

M.2-SATA (NGFF)

M.2-SATA (NGFF) stands for Next Generation Form Factor, which is comprised of several interfaces, and interconnects with the corresponding systems basing on the 67-pin edge card connectors. The Innodisk M.2-SATA (NGFF) offers wide range of capacities in several standard form factors to fulfill different applications, including type 2242, type 2260, type 2280, and 22110.

■ Features

- Adopted SATA 6Gb/s interface, complaint with M.2 (NGFF) type 2242 and 2280
- Excellent data transfer speed in small form factor
- iCell technology for data protection
- Supports iSMART disk health monitoring

■ Benefits

- The small form factor of M.2 (S42) saves about 40% of PCB dimension, comparing to the Mini PCIe form factor
- Innodisk's exclusive iData Guard ensures reliable data transfer in the event of an abnormal power failure
- Fully compliant with industrial standard
- Suitable for ultra-thin or compact system

■ M.2 form factor used on SSD
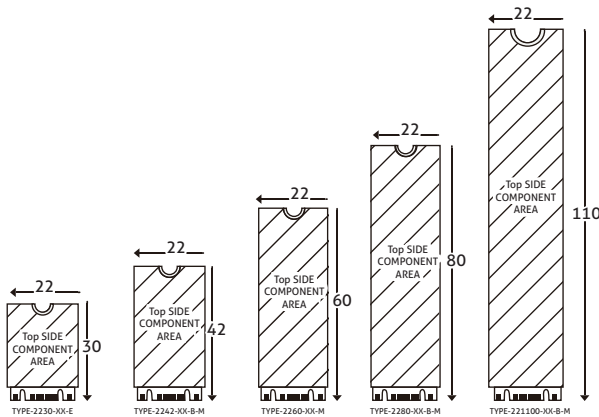
GENERAL TOLERANCE IS ± 0.15

- Key A version is intended to support Wi-Fi+BT+NFC and/or WiGig Combo solution
- Key B is intended to support WWAN+GNSS, SSD and other add-in solutions
- Key E is intended to support Wi-Fi+BT+NFC or GNSS solution
- Key M is intended for SSD devices only

Model Name	IM2SE-2242
Picture	
Key Features	1. Type 2242-D1-B-M 2. High IOPS with DRAM-less design 3. Budget-friendly MLC-based solution
Interface	SATA 6Gb/s
Flash Type	MLC
Capacity (GB)	16GB~256GB
Sequential R/W	500/80
Max. Power Consumption	1.09W (3.3V x 330 mA)
Thermal Sensor	Standard: Yes, Wide Temperature: Yes
ATA Security	Yes
S.M.A.R.T	Yes
Dimensions (mm)	22 x .42 x 3.2
Environment	Vibration: 20G@7~2000Hz, Shock: 1500G@0.5ms, Storeage Temperature: -55°C ~ +95°C, MTBF: >3 million hours

P/N	Standard (0°C~+70°C)	IM2SE-2242IM-16GB-R10 IM2SE-2242IM-32GB-R10 IM2SE-2242IM-64GB-R10 IM2SE-2242IM-128GB-R10 IM2SE-2242IM-256GB-R10
	Wide Temperature (-40°C~+85°C)	IM2SE-2242WM-16GB-R10 IM2SE-2242WM-32GB-R10 IM2SE-2242WM-64GB-R10 IM2SE-2242WM-128GB-R10 IM2SE-2242WM-256GB-R10

Intel® 2.5" SSD Solution

| Key Features	1. 7mm height mechanical design 2. Low power consumption	Max. Power Consumption	165mw(5V*33mA)
Interface	SATA 6Gb/s	Thermal Sensor	0° C~70° C
Flash Type	MLC	ATA Security	Yes
Capacity (GB)	60GB~480GB	S.M.A.R.T	Yes
Sequential R/W	540/490	Dimensions (mm)	70 x 100 x 7
Environment	Vibration: 2.17 G@5-700 Hz, Shock: 1500G@0.5ms, Storeage Temperature: 0° C~70° C, MTBF: ≥1.2 million hours		

Ensuring the Best System Performance

IEI provide complete product line of industrial

Features

- Refresh ➔ TREFI=7.8ms from -40°C~+85°C
- 30µ" Gold Finger
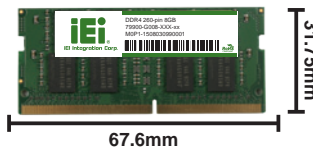- Stern Test of Parameter
- High Reliability
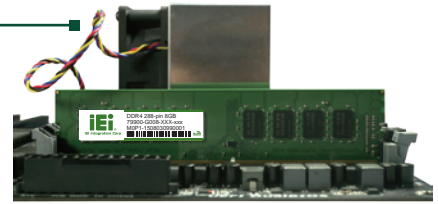
DDR4 DIMM

Features

- Low Power
- Major on Third
- Thermal Sensor Design Ready
- 100% System Level Test

DDR4 DIMM

Module Speed	DIMM	SO-DIMM	CAS Latency
2133 MHz	288-pin	260-pin	CL13

■ **SO-DIMM**   31.75mm   67.6mm

■ **Long-DIMM**   31.75mm   133.35mm
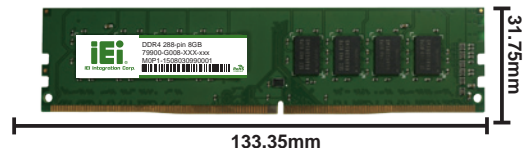
Ordering Information

	Part No.	Description		Part No.	Description
DDR4 SO-DIMM	79F00-G004-003-RS	DDR4 2133 4GB SO-DIMM CL13 512M*8	**DDR4 Long-DIMM**	79E00-G004-001-RS	DDR4 2133 4GB Long-DIMM CL13 512M*8
	79F00-G008-001-RS	DDR4 2133 8GB SO-DIMM CL13 512M*8		79E00-G008-001-RS	DDR4 2133 8GB Long-DIMM CL13 512M*8
		DDR4 2133 16GB SO-DIMM CL13 1024M*8		79E00-G016-002-RS	DDR4 2133 16GB Long-DIMM CL13 1024M*4

DDR3 W/T & Commercial ECC Thermal Sensor Solution

Module Speed	1600 MHz
DIMM	240-pin
SO-DIMM	204-pin
CAS Latency	CL11

DDR3 ECC SO-DIMM   31.75mm   67.6mm

DDR3 ECC Long-DIMM   31.75mm   133.35mm

Ordering Informtion

DDR3 SO-DIMM W/T	Description	DDR3 DIMM W/T	Description
	DDR3 1600 1GB ECC SO-DIMM CL11 128M*8		DDR3 1600 2GB DIMM CL11 256M*8
	DDR3 1600 2GB ECC SO-DIMM CL11 256M*8		DDR3 1600 4GB DIMM CL11 256M*8
	DDR3 1600 4GB ECC SO-DIMM CL11 256M*8		DDR3 1600 8GB DIMM CL11 256M*8
	DDR3 1600 8GB ECC SO-DIMM CL11 256M*8		DDR3 1600 16GB DIMM CL11 256M*8

DDR3 W/T Solution

Module Speed	1600 MHz
DIMM	240-pin
SO-DIMM	204-pin
CAS Latency	CL11

DDR3 SO-DIMM   31.75mm   67.6mm

DDR3 Long-DIMM   31.75mm   133.35mm
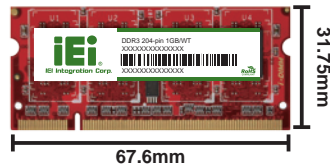
Ordering Information

DDR3 SO-DIMM W/T	Description	DDR3 DIMM W/T	Description
	DDR3 1600 1GB SO-DIMM, ProMOS, 128M*8		DDR3 1600 2GB DIMM, ProMOS, 128M*8
	DDR3 1600 2GB SO-DIMM, ProMOS, 128M*8		DDR3 1600 2GB DIMM, Micron, 256M*8
79B00-G002-038-RS /79B00-G002-035-RS	DDR3 1600 2GB SO-DIMM, Micron, 256M*8		DDR3 1600 4GB DIMM, Micron, 256M*8
79B00-G004-039-RS	DDR3 1600 4GB SO-DIMM, Micron, 256M*8		DDR3 1600 4GB DIMM, ProMOS, 512Mx8
	DDR3 1600 4GB SO-DIMM, ProMOS, 512Mx8		DDR3 1600 8GB DIMM, ProMOS, 512M*8
	DDR3 1600 8GB SO-DIMM, ProMOS, 512Mx8		

DDR2 W/T Solution

Module Speed	800 MHz
DIMM	240-pin
SO-DIMM	200-pin
CAS Latency	CL6

DDR2 SO-DIMM   31.75mm   67.6mm
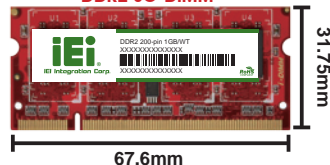
DDR2 DIMM (Low Profile)   18.8mm   133.35mm
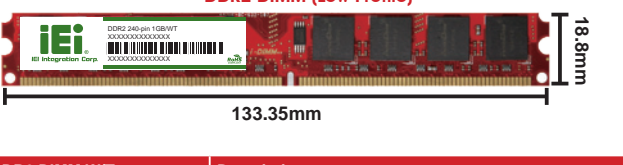
Ordering Information

DDR2 SO-DIMM W/T	Description
79900-G001-052-RS	DDR2 667 1GB SO-DIMM, ProMOS, 128M*8
	DDR2 800 1GB SO-DIMM, ProMOS, 128M*8
79900-G002-027-RS	DDR2 800 2GB SO-DIMM, ProMOS, 128M*8

DDR2 DIMM W/T	Description
	DDR2 800 1GB DIMM, ProMOS, 128M*8
	DDR2 800 2GB DIMM, ProMOS, 128M*8
DDR SO-DIMM W/T	**Description**
79300-M512-088-RS	DDR400 1GB SO-DIMM, ProMOS, 64M*8

Lifespan Evaluation of Flash Products
From Endurance to iSMART

■ Endurance of different flash types - SLC and MLC

SLC is more reliable and has longer endurance than MLC.

MLC is cost-saving alternative to SLC to replace the traditional HDD.

■ iSMART, the proprietary disk health monitoring tool, provides easy access, in-depth information for embedded applications

iSMART can monitor all our flash products in a system. It provides clear and easy to understand warnings, numbers, charts and graphics to enable system integrators and users to check storage device health, performance, temperature, free space, and status at a glance. Also, it can alert users with the remaining service lifetime of Innodisk drives, so that they can replace a device in plenty of time to avoid any potential issues.

Besides providing critical disk information, iSMART also offers convenience through e-mail alerts and one-touch feature. Additionally, iSMART provides dynamic power management, advancing green design goals for lower power consumption, such as with a 35% of power saving in idle mode.

Disk Information

Performance / Alert
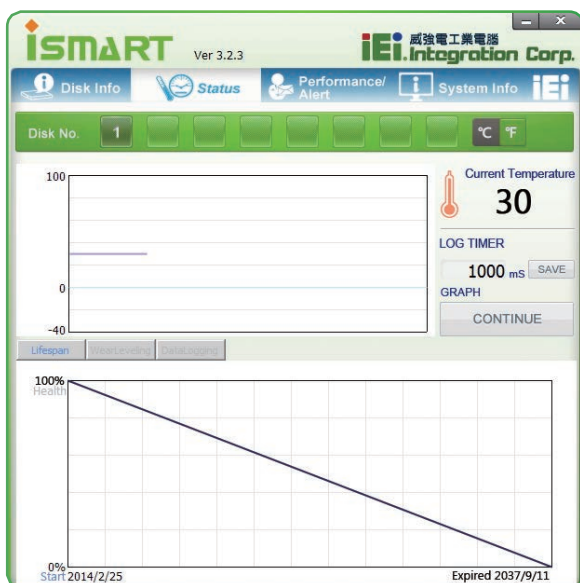
Lifespan Prediction
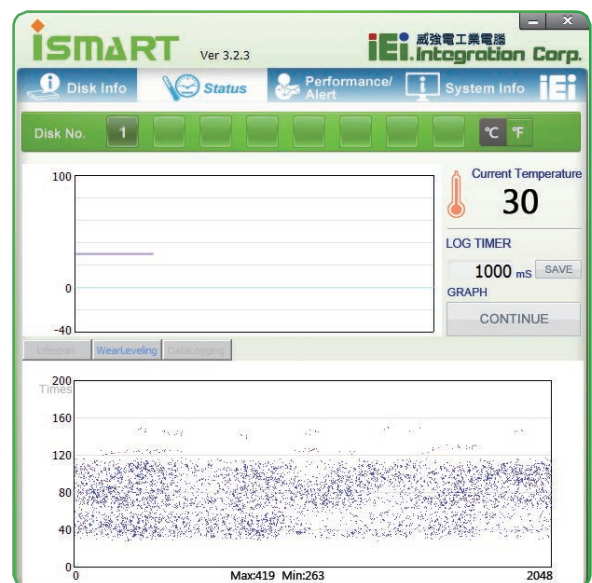
Wear Leveling Status

1 Industrial Computing Solutions

2 Video Capture Solutions

3 Industrial Computer Chassis

4 Open Frame Monitor

5 Power Supply/ Peripherals

6 All-in-One System

Drive Cage *Standard 3.5" Device in 5.25" Drive Bay Solutions*

Following the traditional industrial system needs for stability, durability and toughness for storage drive operating condition, IEI provides various kinds of standard 3.5" device in 5.25" removable drive bay and modules for different demands.

	SATA / IDE / SSD Solution		SATA Solution	
Model Name	XWC-410030507220-RS	XWC-410030507230-RS	RD-03A-R20	RHD-302SATA-R20
Dimensions (L x W x H) (mm)	150 x 146 x 42	150 x 146 x 42	186 x 146 x 42	202 x 146 x 86
Material	Aluminum	Aluminum	Aluminum alloy	Aluminum alloy
Interface	SATA / IDE / SSD	SATA / IDE / SSD	SATA III / SAS 2.0	SATA III / SAS 2.0
Data Transfer Rate			SAS 2.0 / SATA III 6Gbps	SAS 2.0 / SATA III 6Gbps
Drive Bay Space	One 5.25" drive bay	One 5.25" drive bay	1 x 5.25'' Device Bay for 1 x 2.5" or 3.5" Hard Drive	2 x 5.25" Device Bay for 3 x 2.5" or 3.5" Hard Drive
HDD Type	Internal 3.5" device bay	Internal 3.5" device bay	2.5" or 3.5" Hard Drive	2.5" or 3.5" Hard Drive
Cooling Fan			8CM	8 cm
Hot Swap	No	No	Yes	Yes
Keylock	No	No	No	No
Signal Out	No	No	SATA III 7-Pin	SATA III 7-Pin
Color	Black	White	Black	Black
Gross Weight	0.2 kg	0.2 kg	0.85kg	1.3kg

	SATA Solution				
Model Name	RHD-102SATA-R10	RHD-102DW-R10	RHD-101SATA-R10	RHD-104SATA-R20	RHF-21-SATA-R10
Dimensions (L x W x H) (mm)	101.2 x 25.4 x 133	170 x 146 x 41	135 x 101.6 x 25.6	149.6 x 146 x 42.1	151.5 x 102 x 25.7
Material	Metal	Aluminum & SECC	SECC	Full Metal	SECC
Interface	7-pin SATA x 2	SAS / SATA	7-pin SATA x 2	SATA III	SATA
Data Transfer Rate	up to 6Gb/Sec	up to 6Gb/Sec	Up to 600 MB/sec	SATA III 6Gbps	No
Drive Bay Space	One 3.5" drive bay	One 5.25" drive bay	One 3.5" drive bay	1 x 5.25" Device Bay for 4 x 2.5" Hard Drive	Internal 3.5" drive bay
HDD Type	2.5" SAS or SATA I / II / III 2 x HDD/SSD	2.5" SAS 2.0 or SATA I / II / III 2 x HDD/SSD	2.5" SAS or SATA I / II / III 1 x HDD/SSD	2.5" Hard Drive	2.5" SATA HDD
Cooling Fan	No	No	Metal heat dispersion	4CM	No
Hot Swap	Yes	Yes	Yes	Yes	Yes
Keylock	Yes	2 x Section key lock	2 x Segment key lock	Yes	Yes
Signal Out	2 x HDD power signal out 2 x HDD access signal out	1 x Silm type ODD 2 x HDD power signal out 2 x HDD access signal out	1 x HDD power signal out 1 x HDD access signal out	SATA III 7-Pin	1 x Female connector 1 x SATA LED signal connector 1 x Power LED connector 1 x Key on/off connector 1 x Power/SATA LED connector 1 x Male connector
Color	Black	Black	Black	Black	Black
Gross Weight	0.375 kg	0.8 kg	0.483 kg	0.56kg	0.3 kg

FCD-301

- The most suitable USB cable for IEI's CPU boards
- Support standard 3.5" drive bay, 4-pin female connector to CPU boards' pin header, length: 60cm
- RoHS compliant
- Pin definition:

Pin 1	Pin 2	Pin 3	Pin 4
+5V	Data-	Data+	GND

3.5" compact drive bay with USB port

Ordering Information

Part No.	Description
FCD-301[C]-RS	3.5" compact drive bay with USB port, RoHS Color Code: B=Black, W=White

AS-35A / AS-25A / AS-25C

AS-35A   AS-25A

Anti-vibration Drive Kit

AS-25C

- Resistant to shocks and vibrations from all directions
- Support 2.5" HDD into 3.5" drive bay (AS-25A/ 25C)
  Support 3.5" HDD into 5.25" drive bay (AS-35A)
- Meets the following standards:
  - MIL-SLD-810F 514.5C-1 standard
  - 5-20Hz, 1G peak to peak
  - 60-200Hz, 3G peak to peak
- RoHS compliant

Ordering Information

Part No.	Description
AS-35A-RS	3.5" drive anti-vibration kit, RoHS
AS-25A-RS	2.5" drive anti-vibration kit, RoHS
AS-25C-RS	Enhanced 2.5" drive anti-vibration kit, RoHS

Industrial Keyboard Series

MK-KTP5A
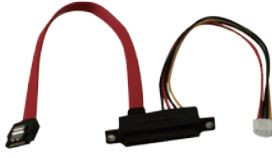
Model Name	MK-KTP5AW-RS-R11		
Key Number	105-key	Color	White/Black
Mouse	Touchpad	Waterproof	NA
Connector	2 x PS/2 for KB/MS	Dimensions (mm)	485 (D) x 380 (W) x 44 (H)
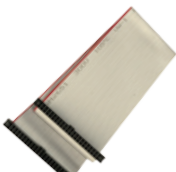
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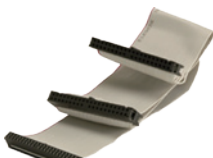
Part No.	Description
MK-KTP5AW-RS-R11	1U rackmount keyboard/touchpad drawer, RoHS

Cables and Connectors *FDD / HDD Cable*

SATA HDD Cable		
Model Name	**32801-000703-400-RS**	**32102-000100-100-RS**	**32000-080700-RS**
Cable Type	SATA HDD cable	SATA power cable	SATA + Power cable
Connector	SATA 7-pin	4-pin + 2 x SATA 15-pin	SATA 7-pin + 4-pin
Connector Type	Lockable	SATA power connector	
Length	50 cm	15 cm	SATA cable 20 cm Power cable 10 cm

SATA HDD Cable	
Model Name	**32801-000201-300-RS**	**32801-000100-300-RS**
Cable Type	SATA + Power cable	SATA + Power cable
Connector	SATA 7-pin + 2-pin wafer (P=2 mm)	SATA 7-pin + 4-pin wafer (P=2.54 mm)
Connector Type	2-pin PH 2.0	4-pin PH 2.54 mm
Length	SATA cable 15 cm Power cable 15 cm	SATA cable 20 cm Power cable 20 cm

IDE HDD Cable		
Model Name	**32200-000009-RS**	**32221-001000-101-RS**	**32200-025001-RS**
Cable Type	IDE HDD flat cable	IDE HDD flat cable	IDE HDD flat cable
Connector	44p-44p	44p-44p	44p-40p-40p
Connector Type	2.0mm -2.0mm	2.0mm -2.0mm	2.0mm-2.54mm-2.54mm
Length	40 cm	25 cm	20 cm + 15 cm

IDE HDD Cable		
Model Name	**32225-002000-200-RS**	**32221-001700-100-RS**	**CB-HD32-RS**
Cable Type	ATA-66 HDD flat cable	ATA-33 HDD flat cable	IDE HDD flat cable
Connector	40p-40p-40p	44p-40p-40p	40p-44p
Connector Type	2.54mm	2.0mm-2.54mm-2.54mm	2.54mm-2.0mm
Length	30 cm + 15 cm	20 cm + 15 cm	IDE cable: 39 cm Power cable: 20 cm

Part numbers listed in the product catalog are for reference purposes. IEI reserves the right to implement substitution parts when the function is not affected.

1 — Industrial Computing Solutions
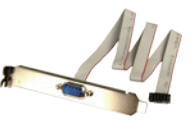
2 — Video Capture Solutions

3 — Industrial Computer Chassis

4 — Open Frame Monitor

5 — Power Supply/ Peripherals
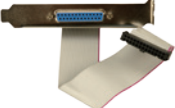
6 — All-in-One System

Cables and Connectors   *Paralle / Serial Cable*

Serial cable				
Model Name	**45002-008103-RS**	**19800-000300-100-RS**	**19800-010900-200-RS**	**19800-000051-RS**	**19800-003600-100-RS**
Cable Type	Serial port	Serial port cable	Serial port cable	Serial port cable	Serial port cable
Board Side	N/A	10-pin (2x5) connector (2.0 mm)	10-pin (2x5) connector (2.54 mm)	2 x 10-pin (2x5) connector (2.54 mm)	2 x 10-pin (2x5) connector (2.54mm)
Board Side Pitch	2.54 mm	2.0 mm	2.54 mm	2.54 mm	2.54 mm
Device Side	2 x DE9M	DE9M	DE9M	2 x DE9M	2 x DE9M
Bracket	Yes	Yes	Yes	Yes	Yes
Length	9 cm	30 cm	50 cm	23 cm	40 cm

Serial cable				
Model Name	**19800-000112-RS**	**32205-000702-100-RS**	**32200-000049-RS**	**32205-001203-200-RS**	**32205-002000-100-RS**
Cable Type	Serial port cable	Serial port cable	Serial port cable	Serial port cable	Serial port cable
Board Side	2 x 10-pin (2x5) connector (2.0 mm)	10-pin (2x5) connector (2.54 mm)	10-pin (2x5) connector (2.0 mm)	40-pin (2x20) connector (2.54 mm)	40-pin (2x20) connector (2.0 mm)
Board Side Pitch	2.0 mm	2.54 mm	2.0 mm	2.54 mm	2.0 mm
Device Side	2 x DE9M	DE9M	DE9M	4 x DE9M	4 x DE9M
Bracket	Yes	No	No	No	No
Length	30 cm	23 cm	20 cm	40/40/40/40 cm	30 cm

Serial cable				
Model Name	**32200-025401-RS**	**32205-002500-100-RS**	**19800-004400-200-RS**	**19800-004300-100-RS**	**32200-026500-RS**
Cable Type	Serial port cable	RS-422/485 cable	RS-232 & RS-422/485 cable	RS-232 & RS-422/485 cable	RS-232 & RS-422/485 cable
Board Side	40-pin (2x20) connector (2.0 mm)	16-pin (2x8) connector (2.54 mm)	14-pin (2x7) connector (2.54 mm)	14-pin (2x7) connector (2.0 mm)	14-pin (2x7) connector (2.0 mm)
Board Side Pitch	2.0 mm	2.54 mm	2.54 mm	2.0 mm	2.0 mm
Device Side	4 x DE9M	4 x DE9M	2 x DE9M	2 x DE9M	2 x DE9M
Bracket	No	No	Yes	Yes	No
Length	30 cm	12 cm	25.5 cm	25 cm	29 cm

Serial cable	Paralle cable		
Model Name	**32205-003800-300-RS**	**19800-000049-RS**	**19800-003500-100-RS**	**32200-015100-RS**
Cable Type	RS-422/485 cable	Parallel port cable	Parallel and serial port cable	Parallel port cable
Board Side	4-pin (1x4) connector (2.0 mm)	26-pin (2x13) connector (2.54 mm)	26-pin (2x13) connector (2.0 mm) 10-pin (2x5) connector (2.0 mm)	26-pin (2x13) connector (2.0 mm)
Board Side Pitch	2.0 mm	2.54 mm	2.0 mm	2.0 mm
Device Side	DE9M	DB25F	DB25F + DE9M	DB25F
Bracket	No	Yes	Yes	No
Length	20 cm	24 cm	24 cm	28 cm

Part numbers listed in the product catalog are for reference purposes. IEI reserves the right to implement substitution parts when the function is not affected.
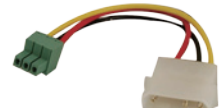
Cables and Connectors   *USB / Keyboard / Mouse / Power Cable*

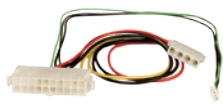| USB cable			
Model Name			
32001-010800-100-RS	32001-006404-100-RS	19800-000100-200-RS	19800-003100-300-RS
Cable type	USB able	USB cable	USB cable	USB cable
Board side	2 x 4-pin connector (2.54 mm)	2 x 4-pin connector (2.0 mm)	2 x 8-pin (2x4) connector (2.54 mm)	2 x 4-pin (1x4) connector (2.54 mm)
Board side pitch	2.54 mm	2.00 mm	2.54 mm	2.54 mm
Device side	2 x USB	2 x USB	4 x USB	2 x USB
Bracket	No	No	Yes	Yes
Length	20 cm	22 cm	30 cm	30 cm

USB cable			
Model Name			
CB-USB02A-RS	32000-044300-RS	32000-073400-RS	32001-008600-200-RS
Cable type	USB cable	USB cable	USB cable	USB cable
Board side	1 x 8-pin (2x4) connector (2.0 mm)	1 x 8-pin (2x4) connector (2.54 mm)	2 x 5-pin connector (2.0 mm) for WAFER-8523, WAFER-945GSE3 only	1 x 8-pin (2x4) connector (2.0 mm)
Board side pitch	2.0 mm	2.54 mm	2.0 mm	2.0 mm
Device side	2 x USB	2 x USB	2 x USB	2 x USB
Bracket	Yes	No	No	No
Length	30 cm	21 cm	40 cm	21 cm

Keyboard / Mouse cable			
Model Name			
19800-000066-RS	19800-000075-RS	32006-000300-100-RS	32000-023800-RS
Cable type	Keyboard and mouse cable	Y-Cable	Y-Cable	Y-Cable
Board side	2 x 5-pin (1x5) connector (2.54 mm)	1 x 6-pin (1x6) connector (2.0 mm)	1 x male PS/2	1 x 6-pin (1x6) connector (2.0 mm)
Board side pitch	2.54 mm	2.0 mm		2.0 mm
Device side	2 x Female PS/2	2 x Female PS/2	2 x Female PS/2	2 x Female PS/2
Bracket	Yes	Yes	No	No
Length	30 cm	22 cm	12 cm (KB) + 14 (MS)	13 cm

Power cable				
Model Name				
32100-087100-RS	32102-022100-100-RS	32102-005100-200-RS	32100-192900-RS	32100-130300-RS
Cable type	12V power cable	ATX function cable	12V power cable	12V power cable	Power cable for PC/104 CPU module
Board side	1 x 4-pin (2x2) connector	1 x 20-pin ATX power connector	1 x 4-pin (2x2) connector	1 x 4-pin (2x2) connector	1 x 4-pin (1x4) molex
Device side	2 x 4-pin (1x4) molex	1 x 4-pin (1x4) molex 1 x 3-pin PS_ON connector	With lock screw	4-pin 3.5 mm terminal block	3-pin 3.5 mm terminal block
Bracket	No	No	No	No	No
Length	13 cm	30 cm	25 cm	25 cm	10 cm

Part numbers listed in the product catalog are for reference purposes. IEI reserves the right to implement substitution parts when the function is not affected.

Cables and Connectors *Audio / LAN / VGA / Adapter Cable*

Audio cable		
Model Name	**19800-000111-RS**	**32007-002600-100-RS**	**32000-028800-RS**
Cable type	Audio cable	Audio cable	Audio cable
Board side	10-pin (2x5) connector (2.0 mm)	10-pin (2x5) connector (2.0 mm)	12-pin (2x6) connector (2.54 mm)
Board side pitch	2.0 mm	2.0 mm	2.54 mm
Device side	3 x Audio jacks	3 x Audio jacks	4 x Audio jacks
Bracket	Yes	No	No
Length	30 cm	30 cm	25 cm

	LAN cable	VGA cable	
Model Name	**32013-001700-100-RS**	**32003-000800-100-RS**	**32000-033804-RS**
Cable type	LAN cable	VGA cable	VGA cable
Board side	10-pin (2x5) connector (2.0 mm)	10-pin (2x5) connector (2.54 mm)	10-pin (2x5) connector (2.0 mm)
Board side pitch	2.0 mm	2.54 mm	2.0 mm
Device side	1 x RJ-45	1 x DB15F	1 x DB15F
Bracket	No	No	No
Length	31 cm	30 cm	30 cm

Part numbers listed in the product catalog are for reference purposes. IEI reserves the right to implement substitution parts when the function is not affected.

Rackmount Slide *Optional Chassis Accessories*

SLIDE		
Model Name	**SLIDE-18**	**SLIDE-24**	**EXTENDER-6**
Specification	18" rackmount slide	24" rackmount slide	6" extender
Description	For rackmount chassis w/ depth up to 500	For rackmount chassis w/ depth up to 600	For 18" or 24" slider

DIN Rail Kit

KIT	
Model Name	**DK-100-R10**	**DK-84MB**
Specification	110 mm (W) x 100 mm (D)	168 mm (W) x 96 mm (D)
Description	VESA 100 to DIN-rail kit	DIN mount kit for ECW-281 series, black, RoHS

1
Industrial Computing Solutions

2
Video Capture Solutions

3
Industrial Computer Chassis

4
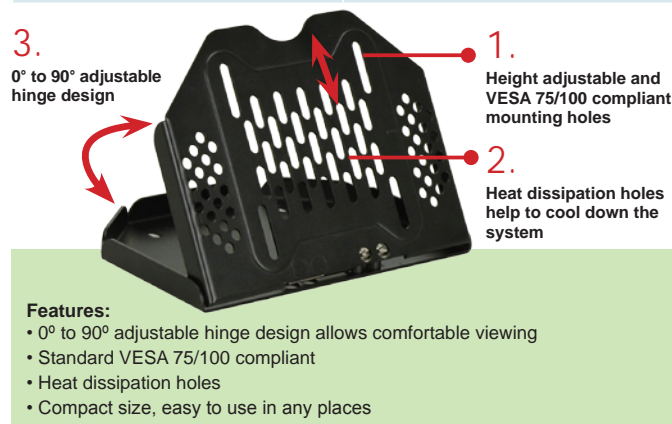Open Frame Monitor

5
Power Supply/ Peripherals

6
All-in-One System

V-STAND

■ VESA Multi-Mounting Stand

IEI patented multi-mounting V-Stand allows wall, ceiling, desk, rear and side mounting to meet diverse applications. Its 0° to 90° adjustable hinge design provides optimal viewing in various environment, such as kitchen, room or shelf.
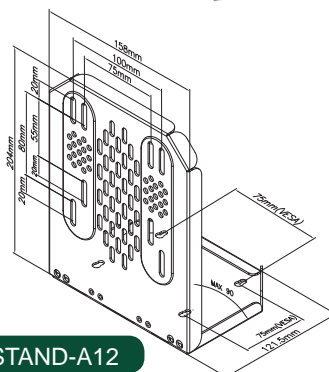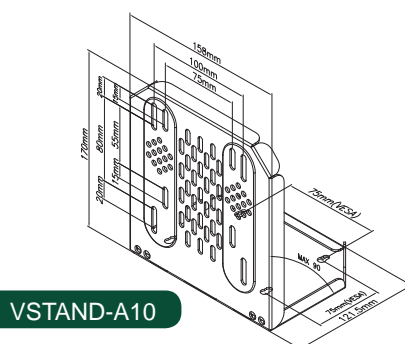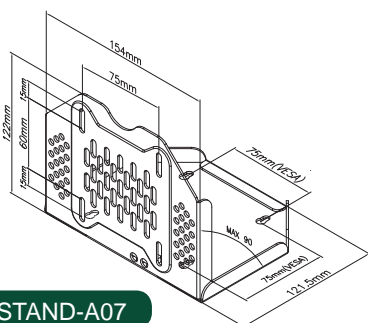
VESA	Model
75 mm x 75 mm	VSTAND-A07-R11
75 mm x 75 mm/100 mm x 100 mm	VSTAND-A10-R11
	VSTAND-A12-R11

VSTAND-A07   **VSTAND-A10**   **VSTAND-A12**

3.
0° to 90° adjustable hinge design

1.
Height adjustable and VESA 75/100 compliant mounting holes

2.
Heat dissipation holes help to cool down the system

Features:
• 0º to 90º adjustable hinge design allows comfortable viewing
• Standard VESA 75/100 compliant
• Heat dissipation holes
• Compact size, easy to use in any places

■ Space saving and easy installation

1: Tighten the screws in the rear of the system's VESA mounting holes

2: Select the position to mount the stand kit

3: Power up the system to operate

Compact size provides mobility

VSTAND-A07   **VSTAND-A10**   **VSTAND-A12**

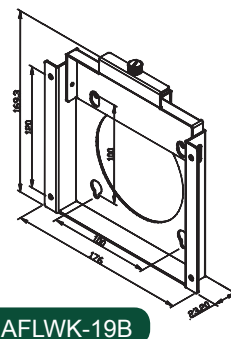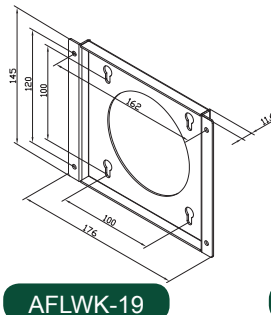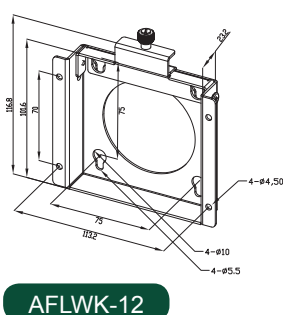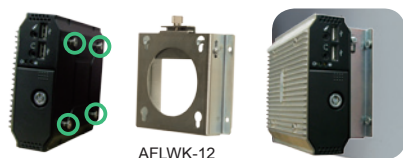## Ordering Information

Part No.	Description
VSTAND-A07-R11	LCD monitor / PPC stand V type, for AFL series, VESA 75, 0~90 degree adjustable hinge, support up to 2.5 kg, RoHS
VSTAND-A10-R11	LCD monitor / PPC stand V type, for AFL series, VESA 75/100, 0~90 degree adjustable hinge, support up to 3 kg, RoHS
VSTAND-A12-R11	LCD monitor / PPC stand V type, for AFL series, VESA 75/100, 0~90 degree adjustable hinge, support up to 3.5 kg, RoHS

Wall Mounting

■ VESA 75/100 Wall Mounting

Secure the panel by fastening the retention screw of the bracket.

VESA	Model
75 mm x 75 mm	AFLWK-12
100 mm x 100 mm	AFLWK-19
	AFLWK-19B

AFLWK-12

AFLWK-12   **AFLWK-19**   **AFLWK-19B**

Ordering Information

Part No.	Description
AFLWK-12	5.6"~12" VESA 75 PPC/monitor wall mount kit with retention screw, silver color, RoHS
AFLWK-19	15"~19" VESA 100 PPC/monitor wall mount kit, silver color, RoHS
AFLWK-19B	15"~19" VESA 100 PPC/monitor wall mount kit with retention screw, silver color, RoHS