











CPU Cooler *High performance thermal solutions*

Choosing the wrong CPU cooler for a system can lead to serious overheating, resulting in system shutdowns 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					
					
	LGA1355/1356/2011				LGA1155/LGA1156
Model Name	CF-1356A-RS	CF-1356B-RS	CF-2011A-RS	CF-2011B-RS	CF-1156A-RS-R11
Description	High performance LGA1355/1356/2011 cooler kit				High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible
CPU Solution	Intel® Xeon® E5-2400		Intel® Xeon® processor E5-2600		Intel® Core™ i5/i3
Socket Solution	LGA1355/1356	LGA1355/1356	LGA2011	LGA2011	LGA1155/LGA1156
Dimensions (mm)	89 x 80 x 27	89 x 90 x 24	89 x 88 x 27.2	89 x 88 x 45.1	89 x 92.6 x 27.4
Material	Copper				Cu
Bearing Type	Two-ball	Ball and Sleeve	Two-ball	Ball and Sleeve	Two-ball
Capability (Watt)	60W	95W	130W	130W	73W
Fan Speed (RPM)	4500	5500	5500	4500	5500
Noise Level (dBA)	51	42	55	42	51
Life Expectancy (hrs)	50000	40000	50000	40000	50000
Weight	55g	50g	55g	50g	422g

Desktop Core™ CPU Cooler			Desktop CPU Cooler		
					
	LGA1155/LGA1156			LGA775 Cooler	
Model Name	CF-1156E-R11	CF-1156C-RS	CF-1156D-RS	CF-775A-RS	CF-775B-RS-R11
Description	High performance LGA1155/LGA1156 CPU cooler, RoHS	Low power LGA1155/LGA1156 cooler kit, RoHS		High performance Two copper pipes LGA 775 CPU cooler, RoHS	High performance 1U LGA 775 CPU cooler, w/ 7010 fan, RoHS
CPU Solution	Intel® Xeon®/Core™ i7/i5/i3	Intel® Core™ i5/i3	Intel® Core™ i7/i5/i3	Intel® Core™2 Quad	Intel® Core™2 Duo
Socket Solution	LGA1155/LGA1156	LGA1155/LGA1156	LGA1155/LGA1156	LGA 775	LGA 775
Dimensions (mm)	90 x 90 x 64	90 x 90 x 33	90 x 90 x 33	92 x 92 x 73	80.5 x 81 x 28.2
Material	Al	Al	Cu+Al	Cu-Al	Cu
Bearing Type	Two-ball	Two-ball	Two-ball	Rifle	Two-ball
Capability (Watt)	95W	45W	65W	130W	90W
Fan Speed (RPM)	5500	3000	3000	3600	4250
Noise Level (dBA)	40.5	33.4	33.4	36.6-39.6	40
Life Expectancy (hrs)	50000	50000	50000	40000	50000
Weight	301g	192g	227g	492g	600g

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Desktop CPU Cooler					
					
	LGA775 Cooler	Pentium® 4 Cooler			Pentium® 3 Cooler
Model Name	CF-520-RS-R11	CF-478A-RS	CF-478B-RS-R11	CF-514-RS	CF-370A-RS
Description	High performance LGA 775 CPU cooler, RoHS	High Performance Copper Socket 478 CPU Cooler, RoHS	High Performance Heat Pipes Socket 478 1U CPU Cooler, RoHS	High Performance Skiving Intel® Pentium® 4 CPU Cooler, RoHS	High Performance Slim Type Socket 370 CPU Cooler, RoHS
CPU Solution	Intel® Core™2 Duo	Intel® Pentium® 4	Intel® Pentium® 4	Intel® Pentium® 4	Intel® Pentium® 3
Socket Solution	LGA 775	Socket 478	Socket 478	Socket 478	Socket 370
Dimensions (mm)	115 x 115 x 67	92 x 92 x 67	89 x 76 x 26	83 x 70 x 55	50 x 52 x 20
Material	Aluminum Alloy	Cu	Cu-Al	Aluminum Alloy	Cu-Al
Bearing Type	Two-ball	Rifle	Two-ball	Two-ball	Two-ball
Capability (Watt)	115W	115W	86W	86W	40W
Fan Speed (RPM)	4500	3600	4800	4800	5500
Noise Level (dBA)	47.5~51.5	39.6	40	42.4	32.1
Life Expectancy (hrs)	70000	40000	50000	50000	40000
Weight	635g	390g	25g	284g	62g

CPU cooler		Mobile Core™ i7 CPU Cooler		Mobile CPU Cooler	
					
	BLOWER	PGA989		Pentium® M Cooler	
Model Name	BF-02-RS	CF-989A-RS-R12	CF-989B-RS-R11	CF-479B-RS	CF-518-RS
Description	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	High Performance Intel® Pentium® M CPU Cooler, RoHS
CPU Solution	Bracket cooling fan	Intel® Core™ i7/i5/i3	Intel® Core™ i7/i5/i3	Intel® Pentium® M, Core™2 Duo (Mobile)	Intel® Pentium® M
Socket solution		PGA989	PGA989	Socket 479	Socket 479
Dimensions (mm)	112 x 90 x 21	60 x 60 x 27.5	60 x 60 x 27.5	50 x 50 x 16	60 x 60 x 26
Material	Plastic	Cu	Al	Al	Aluminum Alloy
Bearing Type	One-ball	Two-ball	Two-ball	Two-ball	Two-ball
Capability (Watt)		55W	50W	50W	20W
Fan Speed (RPM)	2800	4800	4800	5500	5000
Noise Level (dBA)	28	40	40	30.1	36.1
Life Expectancy (hrs)	45000	50000	50000	50000	50000
Weight	107.5g	255g	26g	19g	116g

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New iSMART Tool

iSMART is a powerful, easy-to-use SSD and HDD health monitoring tool. It allows system integrators to track important disk information, such as temperature, storage space, bad blocks, lifespan, and firmware, All in one application. With iSmart, system integrators can better manage disk usage and predict a suitable timing to replace a disk, before SSDs run out their life cycle.



iSMART Support Model

Item	SSD	MSATA	CF Card	SATA DOM
Model	IFD-2510S	IPE-5300IM/WM	ICF-9000	IFM-3300
	IFD-2520S	IPE-5310M/WM	ICF-1000IPD	IFM-3310M
	IFD-2520ISM		ICF-1000WPD	IFM-3000IL
	IFD-2510AC		ICF-1000IPS	IFM-3010L
			ICF-1000WPS	IFM-3000IS
				IFM-3010V

Model Name	2.5" IFD-2510AC	2.5" IFD SATA 2510IS	2.5" IFD-2520IS	2.5" IFD-2520ISM	
Picture					
Key Features	iCell (UPS) technology, 100% avoid data loss during any unexpected power spikes, dips or failures	High speed R/W and main stream SLC SSD	1. SATA III 6Gbs 2. High endurance and performance 3. High IOPS 4. Supports TRIM, NCQ, and S.M.A.R.T	1. SATA III 6Gbs 2. 7mm Slim mechanical design 3. High IOPS 4. Supports TRIM, NCQ, and S.M.A.R.T	
Interface	2.5" SATAIII 3Gb/s, 7+15P		2.5" SATAIII 6Gb/s, 7+15P		
Flash Type	SLC			MLC	
Capacity (GB)	8 / 16 / 32 / 64 / 128 / 256GB		8 / 16 / 32 / 64 / 128 / 256GB		
Sequential R/W (Max.)	250/200 MB/Sec	240/220 MB/Sec	500/340 MB/Sec	500/260 MB/Sec	
Power Consumption (Max.)	3.5 W (5Vx700mA)	2.8 W (5Vx560mA)	1.4W (5Vx280mA)	1.6W (5Vx320mA)	
Dimensions (WxLxH)	69.8 x 100.1 x 9.3 mm		69.85 x 100 x 9 mm		
iCell Support (UPS)	YES	NO	NO	NO	
External Dram Buffer	YES	NO	NO	YES	
Trim	YES	YES	YES	YES	
Thermal Sensor	YES	YES	YES	YES	
iSMART	YES	YES	YES	YES	
Others	S.M.A.R.T. (for Self-Monitoring Analysis and Reporting Technology), ATA Security, Vibration: 20G @7~2000Hz, Shock 1500G @ 0.5ms, Storage Temperature : -55°C~+95°C, MTBF : 3 million hours				
DC Input Voltage	5V Single power supply operation				
P/N	STD (0°C~+70°C)	IFD-2510AC-256GB IFD-2510AC-128GB IFD-2510AC-64GB IFD-2510AC-32GB IFD-2510AC-16GB	IFD-2510IS-256GB-R20 IFD-2510IS-128GB-R20 IFD-2510IS-64GB-R20 IFD-2510IS-32GB-R20 IFD-2510IS-16GB-R20 IFD-2510IS-8GB-R20	IFD-2520IS-256GB IFD-2520IS-128GB IFD-2520IS-64GB IFD-2520IS-32GB IFD-2520IS-16GB IFD-2520IS-8GB	IFD-2520ISM-128GB IFD-2520ISM-64GB IFD-2520ISM-32GB IFD-2520ISM-16GB
	WT (-40°C~+85°C)	IFD-2510AW-256GB IFD-2510AW-128GB IFD-2510AW-64GB IFD-2510AW-32GB IFD-2510AW-16GB	IFD-2510WT-256GB-R20 IFD-2510WT-128GB-R20 IFD-2510WT-64GB-R20 IFD-2510WT-32GB-R20 IFD-2510WT-16GB-R20 IFD-2510WT-8GB-R20	IFD-2520WT-256GB IFD-2520WT-128GB IFD-2520WT-64GB IFD-2520WT-32GB IFD-2520WT-16GB IFD-2520WT-8GB	IFD-2520WTM-128GB IFD-2520WTM-64GB IFD-2520WTM-32GB IFD-2520WTM-16GB **20°C~+85°C

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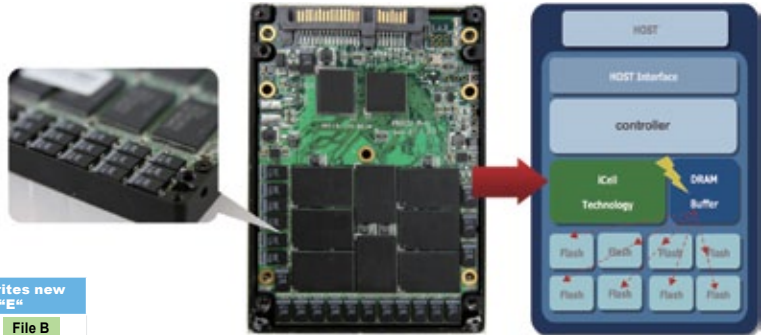
Industrial Flash Module Series (SATA & PATA Interface)

IEI Industrial SSD Series

IEI SSDs bring a whole new level of high performance to memory storage. Our wide selection of SSDs are designed for different applications, including industrial/embedded, enterprise server, aerospace, defense, and other semi-industrial applications, such as thin clients, POS, and kiosks. Our SSDs come in SLC and MLC types, and support PATA/IDE 44 pin, SATA II 3.0G, and SATA III 6.0G.

iCell Technology

iCell is a smart data protection technology that is built into IEI's SSDs. iCell is crucial for mission-critical applications, where working under extreme conditions and without backup power is unavoidable. Our iCell technology provides a mechanism to instantaneously discharge data stored in temporary volatile DRAM buffers to flash storage, to ensure the safety of data during power failures.



TRIM Function

	1. User writes four new files	2. User deletes file "C" and OS sends TRIM	3. User writes new file "E"
OS Logical View	File A, File B, File C, File D, Free	File A, File B, File D, Free, Free	File A, File B, File D, File E, Free
SSD Logical View (LBAs)	A1 A2 A3 B1, B2 B3 B4 B5, B6 C1 C2 D1	A1 A2 A3 B1, B2 B3 B4 B5, B6, D1	A1 A2 A3 B1, B2 B3 B4 B5, B6 E1 E2 D1
SSD Physical View	A1 A2 A3 B1, B2 B3 B4 B5, B6 C1 C2 D1	A1 A2 A3 B1, B2 B3 B4 B5, B6 GC GC D1	A1 A2 A3 B1, B2 B3 B4 B5, B6 GC GC D1, E1 E2
Over Provisioning			
	SSD Writes new data; only SSD knows about OP	TRIM from OS tells SSD to ignore the data in the location previously holding file "C" during GC	OS writes new file to old location; SSD writes file E to another free area

IEI's Garbage Collection/TRIM technology is used to maintain data consistency and perform continual data cleansing on SSDs. It runs as a background process, freeing up valuable controller resources while sorting good data into available blocks, and deleting bad blocks. It also significantly reduces write operations to the drive, thereby increasing the SSD's speed and lifespan. With IEI's Garbage Collection/TRIM technology, an SSD's health and performance are optimized.

SATADOM-IFM 3000/3300 Series

MoSATA 6Gb/s (SLC)	IFM-3300	IFM-3310M	IFM-3000	IFM-3000	IFM-3010V	
Picture		New			New	
Key Features	Vertical, High Speed	Built-in Pin 7	Vertical, Low Profile SATADOM	Vertical, Slim SATADOM	Built-in Pin 7	
Interface	SATAII 3Gb/s	SATAIII 6Gb/s	SATAII 3Gb/s	SATAII 3Gb/s	SATAIII 6Gb/s	
Flash Type	SLC	MLC	SLC	SLC	SLC	
Capacity (GB)	2 / 4 / 8 / 16 / 32GB	8 / 16 / 32 / 64 / 128GB	128 / 256 / 512MB 1 / 2 / 4 / 8GB	128 / 256 / 512MB 1 / 2 / 4 / 8GB	4 / 8 / 16GB	
Sequential R/W (Max.)	130/125 MB/Sec	470/100 MB/Sec	35/33 MB/Sec	35/33 MB/Sec	200/100MB/Sec	
Power Consumption (Max.)	1 W (5V@200 mA)	> 1W	0.83W (5V@166 mA)	0.83W (5V@166 mA)	> 0.5W	
Dimensions (WxLxH)	25 x 39.4 x 6.5mm	25 x 41.5 x 6.5mm	32.9 x 29.5 x 8 mm	20.9 x 39.5 x 7.9 mm	20.9 x 39.5 x 7.9 mm	
iSMART	YES	YES	YES	YES	YES	
Thermal Sensor	YES	YES	YES	YES	YES	
Others	S.M.A.R.T. (for Self-Monitoring Analysis and Reporting Technology), ATA Security, Vibration: 20G @7~2000Hz, Shock: 1500G @ 0.5ms, Storage Temperature: -55°C~+95°C					
P/N	STD (0°C~+70°C)	IFM-3300IS-32GB-R20 IFM-3300IS-16GB-R20 IFM-3300IS-8GB-R20 IFM-3300IS-4GB-R20 IFM-3300IS-2GB-R20	IFM-3310IM-128GB IFM-3310IM-64GB IFM-3310IM-32GB IFM-3310IM-16GB IFM-3310IM-8GB	IFM-3000IL(X)S-8GB-R20 IFM-3000IL(X)S-4GB-R20 IFM-3000IL(X)S-2GB-R20 IFM-3000IL(X)S-1GB-R20 IFM-3000IL(X)S-512MB-R20 IFM-3000IL(X)S-256MB-R20 IFM-3000IL(X)S-128MB-R20	IFM-3000IS-8GB-R20 IFM-3000IS-4GB-R20 IFM-3000IS-2GB-R20 IFM-3000IS-1GB-R20 IFM-3000IS-512MB-R20 IFM-3000IS-256MB-R20 IFM-3000IS-128MB-R20	IFM-3010IS-16GB IFM-3010IS-8GB IFM-3010IS-4GB
	WT (-40°C~+85°C)	IFM-3300WS-32GB-R20 IFM-3300WS-16GB-R20 IFM-3300WS-8GB-R20 IFM-3300WS-4GB-R20 IFM-3300WS-2GB-R20	IFM-3310WM-128GB IFM-3310WM-64GB IFM-3310WM-32GB IFM-3310WM-16GB IFM-3310WM-8GB	IFM-3000WL(X)S-8GB-R20 IFM-3000WL(X)S-4GB-R20 IFM-3000WL(X)S-2GB-R20 IFM-3000WL(X)S-1GB-R20 IFM-3000WL(X)S-512MB-R20 IFM-3000WL(X)S-256MB-R20 IFM-3000WL(X)S-128MB-R20	IFM-3000WS-8GB-R20 IFM-3000WS-4GB-R20 IFM-3000WS-2GB-R20 IFM-3000WS-1GB-R20 IFM-3000WS-512MB-R20 IFM-3000WS-256MB-R20 IFM-3000WS-128MB-R20	IFM-3010WS-16GB IFM-3010WS-8GB IFM-3010WS-4GB

IFM-3000IL(X)S; X: V, P ; IFM-3000WL(X)S; X: V, P ; IFM-3300WL(X)PS; X: W, I

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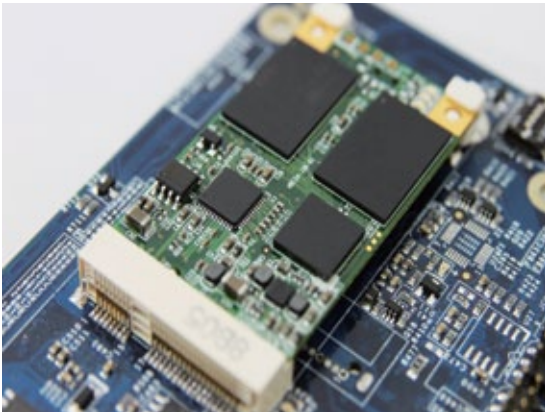
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Industrial Flash SATA & PCIe Module Series

■ The PCIe Mini DOM Advantages



The PCIe Mini DOM designed for industrial PCs and embedded systems features standard PCI Express Mini interface, driverless and plug & play capabilities.

- Standard PCI Express
- Plug & Play
- Driverless
- 4GB~32GB With SLC & MLC Flash
- Supports Windows® XP Embedded, Windows® 7 Embedded, Windows Embedded 8
- Customized function support

Model Name	IPE-5200IM	IPE-5300IM/WM	IPE-5310IM/WM	
Picture		New 	New 	
Key Features	High-performance with small form factor	build-in thermal sensor	Excellent C/P ratio with SATA III performance	
Interface	SATAII 3Gb/s	SATAIII 6Gb/s	SATAIII 6Gb/s	
Flash Type	SLC	SLC	MLC	
Capacity (GB)	2 / 4 / 8 / 16 / 32GB	4 / 8 / 16 / 32GB	8 / 16 / 32 / 64 / 128GB	
Sequential R/W (Max.)	150/140 MB/Sec	470/300 MB/Sec	200/35 MB/Sec	
Power Consumption (Max.)	>0.66W	>1W	>1W	
Dimensions (WxLxH)	29.85 x 50.8 x 3.5mm	29.8 x 50.8 x 3.5 mm	29.8 x 50.8 x 3.5 mm	
iSMART	NO	YES	YES	
Others	S.M.A.R.T. (for Self-Monitoring Analysis and Reporting Technology), ATA Security, Vibration: 20G @7~2000Hz, Shock: 1500G @ 0.5ms, Storage Temperature: -55°C~+95°C			
P/N	STD (0°C~+70°C)	IPE-5200IM-32GB IPE-5200IM-16GB IPE-5200IM-8GB IPE-5200IM-4GB IPE-5200IM-2GB	IPE-5300IM-64GB IPE-5300IM-32GB IPE-5300IM-16GB IPE-5300IM-8GB IPE-5300IM-4GB IPE-5300IM-2GB	IPE-5310IM-128GB IPE-5310IM-64GB IPE-5310IM-32GB IPE-5310IM-16GB IPE-5310IM-8GB
	WT (-40°C~+85°C)	IPE-5200WM-32GB IPE-5200WM-16GB IPE-5200WM-8GB IPE-5200WM-4GB IPE-5200WM-2GB	IPE-5300WM-64GB IPE-5300WM-32GB IPE-5300WM-16GB IPE-5300WM-8GB IPE-5300WM-4GB IPE-5300WM-2GB	IPE-5310WM-128GB IPE-5310WM-64GB IPE-5310WM-32GB IPE-5310WM-16GB IPE-5310WM-8GB **:-20°C~+85°C

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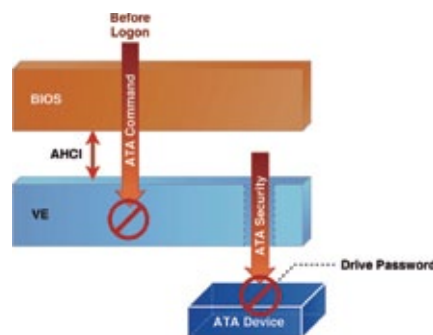
Industrial Flash Module Series (IDE Interface)

What's ATA Security?

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:

- protect the storage for illegal access
- prevent the unauthorized set of a new password (by a Virus or other malware).

When the security system is enabled, access to user data on the device is denied after a power cycle until the password is sent to the device with the SECURITY UNLOCK command.



Industrial IDE Flash Module

Model Name	ICF 9000		ICF 1000+			
Picture						
Capacity	2GB~32GB		128MB~32GB		128MB~16GB	256MB~8GB
Sequential R/W (Max.)	110/100 MB/sec		40/28 MB/sec		20/5 MB/sec	
Interface	50-pin CompactFlash®		50-pin CompactFlash®		50-pin CompactFlash®	
Flash Type	SLC		SLC		SLC	
IDE Transfer Mode	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 0-6 MwDMA Mode 0-4 UltraDMA Mode 0-4	
Operation Temp.	0°C~+70°C (Standard) /-40°C~+85°C (Industrial)					
Storage Temp.	-55°C~+95°C			-40°C~+100°C		
Humidity	10%-95% non-condensing					
Vibration/Shock (7/2000Hz)/(0.5ms)	1500G/0.5ms			1500G/0.5ms		
DC Power Input	ICF:+3.3V~+5V single power supply operation			Supply voltage: 3.3V & 5V		
Power Mode	Auto Stand-by and sleep mode					
Power Consumption (Max.)	1.05W (5V@210mA)			95 mA		
Dimensions (WxLxH) (mm)	42.8 x 36.4 x 3.3		42.8 x 36.4 x 3.3		42.8 x 36.4 x 3.3	
ATA Security	Yes		Yes		Yes	
iSMART	YES		YES		NO	
P/N	STD (0°C~+70°C)	ICF-9000CD-32GB ICF-9000CD-16GB ICF-9000CD-8GB ICF-9000CD-4GB	ICF-1000IPD-32GB ICF-1000IPD-16GB ICF-1000IPD-8GB ICF-1000IPD-4GB ICF-1000IPD-2GB ICF-1000IPD-1GB	ICF-1000IPS-2GB ICF-1000IPS-1GB ICF-1000IPS-512MB ICF-1000IPS-256MB ICF-1000IPS-128MB	ICF-1000IAS-16GB ICF-1000IAS-2GB ICF-1000IAS-1GB ICF-1000IAS-512MB ICF-1000IAS-256MB ICF-1000IAS-128MB	ICF-1000IAD-8GB ICF-1000IAD-4GB ICF-1000IAD-2GB ICF-1000IAD-1GB ICF-1000IAD-512MB ICF-1000IAD-256MB
	WT (-40°C~+85°C)	ICF-9000WD-32GB ICF-9000WD-16GB ICF-9000WD-8GB ICF-9000WD-4GB	ICF-1000WPD-32GB ICF-1000WPD-16GB ICF-1000WPD-8GB ICF-1000WPD-4GB ICF-1000WPD-2GB ICF-1000WPD-1GB	ICF-1000WPS-2GB ICF-1000WPS-1GB ICF-1000WPS-512MB ICF-1000WPS-256MB ICF-1000WPS-128MB	ICF-1000WAS-16GB ICF-1000WAS-2GB ICF-1000WAS-1GB ICF-1000WAS-512MB ICF-1000WAS-256MB ICF-1000WAS-128MB	ICF-1000WAD-8GB ICF-1000WAD-4GB ICF-1000WAD-2GB ICF-1000WAD-1GB ICF-1000WAD-512MB ICF-1000WAD-256MB

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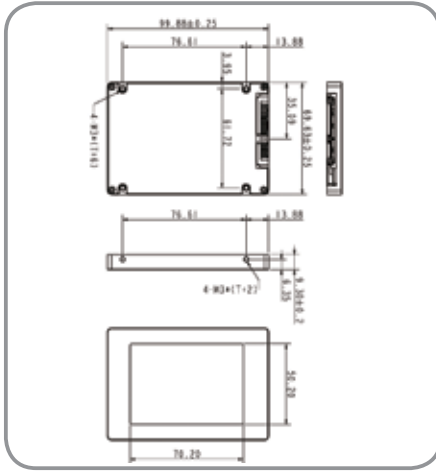
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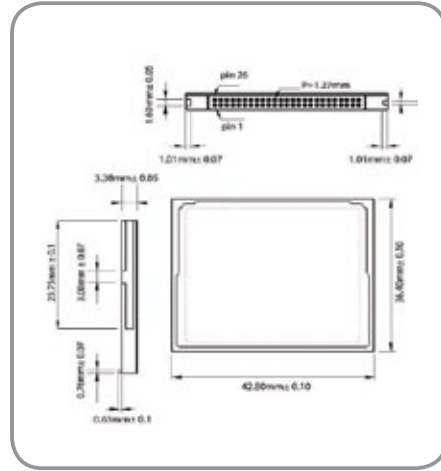
IEI Industrial Flash Module Series

■ Dimension Drawing

IFD-2510IS / IFD-2510WT

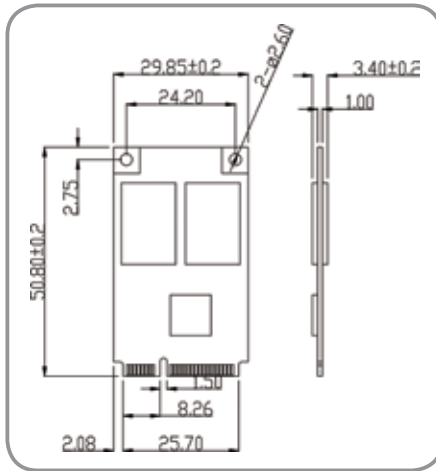


iCF 9000



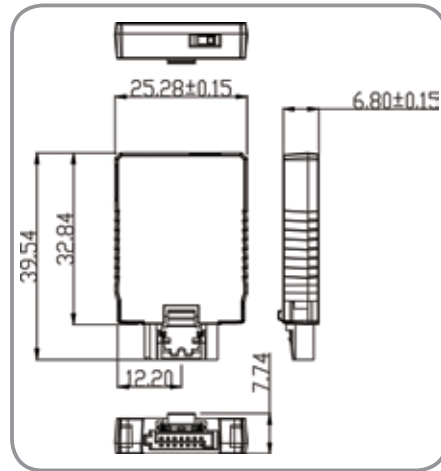
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IPE-5300IM/WM / IPE-5310IM/WM



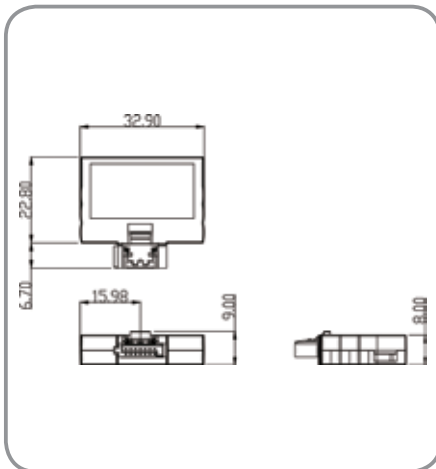
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IFM-3300IS / IFM-3300WS



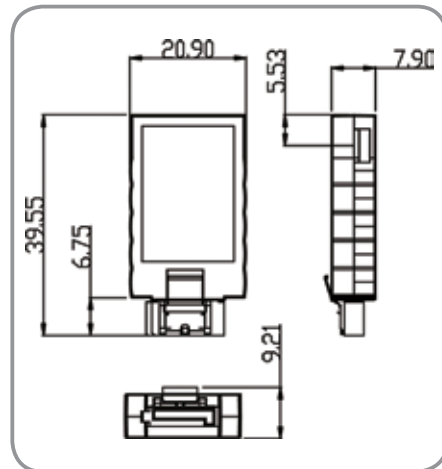
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IFM-3000ILVS / IFM-3000WLVS



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IFM-3000IS / IFM-3000WS



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Ensuring The Best System Performance

■ DDR3 1.35V iDIMM

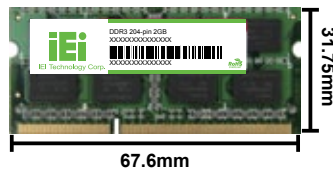
Features

- Low Power
- Major on 3rd
- Thermal Sensor Design Ready
- 100% System Level Test

DDR3 1.35V iDIMM

Module Speed	1600 MHz	1.35V
DIMM	240-pin	
SO-DIMM	204-pin	
CAS Latency	CL9	

■ iDIMM + SO-DIMM

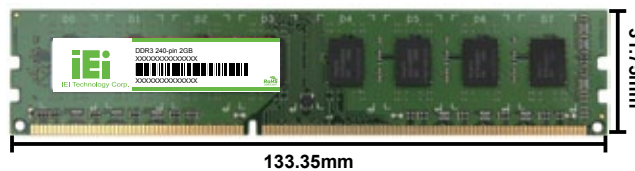


Ordering Information **New**



1.35V DDR3 SO-DIMM	Description
79B00-G002-013-RS	DDR3 1600 2GB SO-DIMM CL9 256M*8
79B00-G004-008-RS	DDR3 1600 4GB SO-DIMM CL9 256M*8
1.35V DDR3 DIMM	Description
79A00-G002-016-RS	DDR3 1600 2GB LONG-DIMM CL9 256M*8
79A00-G004-011-RS	DDR3 1600 4GB LONG-DIMM CL9 256M*8

■ Long-DIMM



■ Complete product line of Industrial

IEI provide complete product line of industrial

Features

- Refresh → TREFI=7.8ms from -40°C~+85°C
- 30ms Gold Finger
- Stern Test of parameter
- High reliability

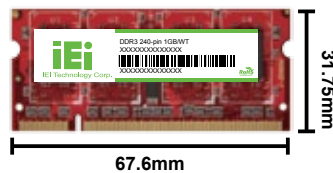
**-40°C~+85°C
Wide Temp.
Available**



DDR3 W/T Solution

Module Speed	1600 MHz
DIMM	240-pin
SO-DIMM	240-pin
CAS Latency	CL9

DDR3 SO-DIMM



DDR3 Long-DIMM



Ordering Information

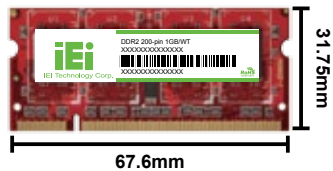
DDR3 SO-DIMM W/T	Description
79B00-G001-XXX-RS	DDR3 1600 1GB SO-DIMM CL9 128M*8
79B00-G002-XXX-RS	DDR3 1600 2GB SO-DIMM CL9 256M*8
79B00-G004-XXX-RS	DDR3 1600 4GB SO-DIMM CL9 256M*8

DDR3 DIMM W/T	Description
79A00-G002-XXX-RS	DDR3 1600 2GB DIMM CL9 256M*8

DDR2 W/T Solution

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

DDR2 SO-DIMM



DDR2 Long-DIMM



Ordering Information

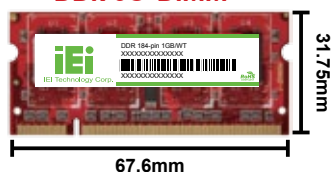
DDR2 SO-DIMM W/T	Description
79900-M512-XXX-RS	DDR 800 1GB SO-DIMM CL6 128M*8
79900-G001-XXX-RS	DDR 800 2GB SO-DIMM CL6 128M*8

DDR2 DIMM W/T	Description
79900-M512-XXX-RS	DDR 800 1GB DIMM CL6 128M*8
79900-G001-XXX-RS	DDR 800 2GB DIMM CL6 128M*8

DDR W/T Solution

Module Speed	400 MHz
DIMM	184-pin
SO-DIMM	200-pin
CAS Latency	CL3

DDR SO-DIMM



DDR Long-DIMM



Ordering Information

DDR 400 SO-DIMM	Description
79300-M512-XXX-RS	DDR 400 512MB SO-DIMM CL3 64M*8
79300-G001-XXX-RS	DDR 400 1GB SO-DIMM CL3 64M*8





DDR 400 DIMM	Description
79300-M512-XXX-RS	DDR 400 512MB DIMM CL3 64M*8
79300-G001-XXX-RS	DDR 400 1GB DIMM CL3 64M*8

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Drive Cage *Standard 3.5" devices 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" devices 5.25" removable drive bay and modules for each different demands.

	SATA / IDE / SSD Solution		SATA / IDE / SSD	SATA Solution
				
Model Name	XWC-410030507220-RS	XWC-410030507230-RS	AS-25D2-R10	RD-03A-RS
Dimensions (L x W x H) (mm)	150 x 146 x 42	150 x 146 x 42	143 x 106 x 26	190 x 148 x 42
Material	Aluminum	Aluminum	Plastic body with stainless steel 2.5" HDD bracket	Aluminum alloy
Interface	SATA / IDE / SSD	SATA / IDE / SSD	SATA / IDE / SSD	SATA
Data Transfer Rate			No	up to 300MB/Sec
Drive Bay Space	One 5.25" Device Bay	One 5.25" Device Bay	Two 2.5" Device Bay	One 5.25" Device Bay
HDD Type	Internal 3.5" device bay	Internal 3.5" device bay	2.5" IDE / SATA SSD x 2	3.5" SATA
Cooling Fan			Open air design for maximum air flow and cooling	4010 ball bearing
Hot Swap	No	No	No	Yes
Keylock	No	No	No	Yes
Signal Out	No	No	No	Power on signal out (high) HDD access signal out (high)
Color	Black	White	Black	White / Black
G.W.	0.2kg	0.2kg	0.125kg	0.3kg

	SATA Solution			
				
Model Name	RHD-302SATA-RS	RHD-101SATA-R10	RHD-104SATA-R10	RHF-21-SATA-R10
Dimensions (L x W x H) (mm)	220 x 148 X 85.8	135 x 101.6 x 25.6	170 x 146 x 41.3	151.5 x 102 x 25.7
Material	Aluminum alloy	SECC	SECC	SECC
Interface	SATA	7-pin SATA x 2	7-pin SATA x 4	SATA
Data Transfer Rate	up to 300MB/Sec	Up to 600 MB/sec	Up to 600 MB/sec	No
Drive Bay Space	2 x 5.25" drive bay for 3 x 3.5" HDD	One 3.5" Device Bay	One 5.25" Device Bay	Internal 3.5" device bay
HDD Type	3.5" SATA	2.5" SAS or SATA I / II / III 1 x HDD/SSD	2.5" SAS or SATA I / II / III 4 x HDD/SSD	2.5" SATA HDD
Cooling Fan	8020 ball bearing (Removable)	Metal heat dispersion	2 x 40 mm rear outtake fan w/ aluminum heat dissipation	No
Hot Swap	Yes	Yes	Yes	Yes
Keylock	No	2 x segment key lock	No	Yes
Signal Out	3 x HDD power signal out (+5V, GND) 1 x Temperature overheat signal out (5V, GND) 1 x Fan fail signal out (5V, GND) 3 x HDD access signal out (+5V, GND) 1 x Reset signal out (High, GND)	1 x HDD power signal out 1 x HDD access signal out	4 x HDD power signal out 4 x HDD access signal out	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 bezel and silver housing	Black	Black	Black
G.W.	1.0kg	0.483kg	0.95kg	0.3kg

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Panel Solutions Introduction

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 [C] 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

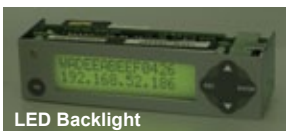
LCM-02G 16x2 LCD Message Module



LCM-02G in RACK-1151G 1U rackmount chassis



Main Features



- RoHS compliant design
- One programmable welcome page
- Up to 8 messages auto rolling mode
- Adjustable back-light brightness
- Five programmable buttons (Four OSD buttons and One extra function button.)

Packing List

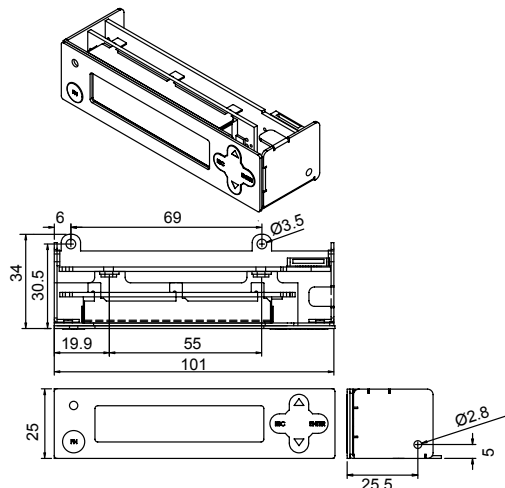


1 x LCM-02G
1 x User manual
1 x Utility disk
1 x Power cable
1 x RS-232 cable
3 x LED, reset cable
1 x Screw set

Ordering Information

Part No.	Description
LCM-02G	16 x 2 LCD Message Module, RoHS

Dimensions (measurement units: millimeter)



Specifications

Character Number	16 characters x 2 lines
Character Size (WxH)	2.96 mm X 5.56 mm
Dot Size (WxH)	0.56 mm X 0.66 mm
Back Light	Yellow green LED with adjustable brightness
LCD Size (WxH)	60mm x 15mm
Buttons	UP / DOWN / ESC / ENTER / FN
Control Interface	RS-232
GPIO	4
Power	DC 5V
Operating Temperature	0~50°C
Dimensions (WxHxD)	101mm x 25mm x 34mm

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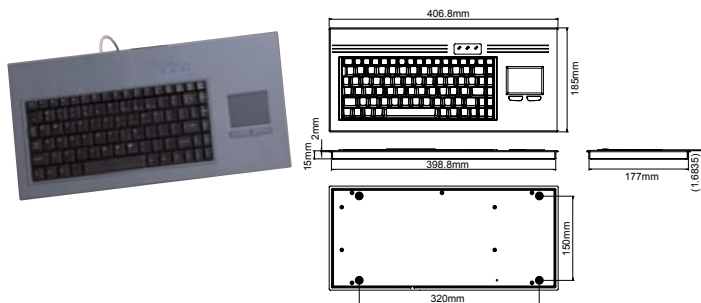
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Panel Solutions Introduction

Industrial Keyboard Series

Industrial Keyboard Series			
			
Model Name	KM-088G	KM-088A-RS	MK-KTP5A
Key Number	88-key	88-key	105-key
Mouse	Touchpad	Pointing Device	Touchpad
Connector	PS/2 type 6-pin mini-DIN	PS/2 type 6-pin mini-DIN	2 x PS/2 for KB/MS
Color	Black	Black	White
Waterproof	NA	IP-55	NA
Dimensions (mm)	D406.8 x W185 x H15	D370 x W139 x H16	D485 x W380 x H44

KM-088G



Main Feature

- Standard English keyboard layout
- Optional Japanese, German, French and Italian keyboard layout
- 88-key and Touchpad Module

Ordering Information

Part No.	Description
KM-088G - L	L: Language Code EN: English JP: Japanese DE: German FR: French IT:Italian CH:Chinese/English

KM-088A-RS



Main Feature

- IP55 Compliant dirt-, dust- and water-resistance
- Compact design with super low profile for easy fitting into 1U rackmount
- Specifically designed for IPC, military, Medical and other applications

Ordering Information

Part No.	Description
KM-088A-RS	88 Keys IP55 Waterproof Keyboard with Point Device, RoHS. Notes: For other language K/B, please contact region sales.

MK-KTP5A



Ordering Information

Part No.	Description
MK-KTP5A-RS	1U Rackmount Keyboard/Touchpad Drawer, RoHS

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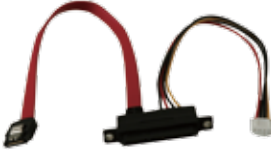

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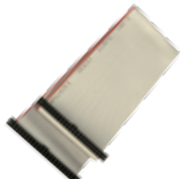

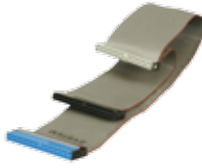
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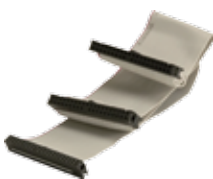


Panel Solutions Introduction

Cables and Connectors *FDD / HDD cable*

SATA HDD cable			
			
Model Name	32801-000703-200-RS	32102-000100-200-RS	32000-080700-RS
Cable type	SATA HDD cable	SATA power cable	SATA + Power cable
Connector	SATA 7-pin	4-pin model + 2 x SATA 15-pin	SATA 7-pin + 4-pin model
Connector type	Lockable	SATA power connector	
Length	50 cm	15 cm	SATA cable 20 cm Power cable 10 cm

SATA HDD cable		IDE HDD cable	
			
Model Name	32801-000201-100-RS	32801-000100-100-RS	32200-000009-RS
Cable type	SATA + Power cable	SATA + Power cable	IDE HDD flat cable
Connector	SATA 7-pin + 2-pin wafer 2.0mm	SATA 7-pin + 4-pin wafer 2.54mm	44p-44p
Connector type	2-pin PH 2.0	4-pin PH 2.54 mm	2.0mm -2.0mm
Length	SATA cable 15 cm Power cable 15 cm	SATA cable 20 cm Power cable 20 cm	40 cm

IDE HDD cable			
			
Model Name	32200-000037-RS	32200-025001-RS	32200-000052-RS
Cable type	IDE HDD flat cable	IDE HDD flat cable	ATA-66 HDD flat cable
Connector	44p-44p	44p-40p-40p	40p-40p-40p
Connector type	2.0mm -2.0mm	2.0mm-2.54mm-2.54mm	2.54mm
Length	25 cm	20 cm + 15 cm	30 cm + 15 cm

IDE HDD cable			
			
Model Name	32200-008800-RS	CB-HD32-RS	CVT-4044-RS
Cable type	ATA-33 HDD flat cable	IDE HDD flat cable	IDE adapter
Connector	44p-40p-40p	40p-44p	40p-44p
Connector type	2.0mm-2.54mm-2.54mm	2.54mm-2.0mm	2.54mm-2.0mm
Length	20 cm + 15 cm	IDE cable: 39 cm Power cable: 20 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.

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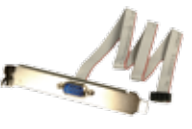


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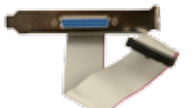



Panel Solutions Introduction

Cables and Connectors *Paralle / Serial cable*

	Serial cable					
						
Model Name	45002-008103-RS	19800-000300-100-RS	19800-000114-RS	19800-000047-RS	19800-000051-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)	10-pin (2x5) connector (2.54 mm)	2 x 10-pin (2x5) connector (2.54 mm)	
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	DE9M	2 x DE9M	
Bracket	Yes	Yes	Yes	Yes	Yes	
Length	9 CM	30 cm	50 cm	30 cm	23 cm	

	Serial cable					
						
Model Name	19800-003600-100-RS	19800-000112-RS	32200-000015-RS	32205-002700-100-RS	32205-001203-100-RS	32100-147900-RS
Cable type	Serial port cable	Serial port cable	Serial port cable	Serial port cable	Serial port cable	Serial port cable
Board side	2 x 10-pin (2x5) connector (2.54mm)	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	2.54 mm	2.0 mm	2.54 mm	2.0 mm	2.54 mm	2.0 mm
Device side	2 x DE9M	2 x DE9M	DE9M	DE9M	4 x DE9M	4 x DE9M
Bracket	Yes	Yes	No	No	No	No
Length	40 cm	30 cm	23 cm	20 cm	40/40/40/40 cm	30 cm

	Serial cable					
						
Model Name	32200-025401-RS	32200-026800-RS	19800-000058-RS	19800-004300-100-RS	32205-000300-100-RS	32205-003700-100-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	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)	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	2.0 mm
Device side	4 x DE9M	4 x DE9M	2 x DE9M	2 x DE9M	2 x DE9M	2 x DE9M
Bracket	No	No	Yes	Yes	No	No
Length	30 cm	12 cm	25.5 cm	25 cm	29 cm	23 cm

	Serial cable	Paralle cable			
					
Model Name	32205-003800-100-RS	19800-000400-100-RS	19800-000142-00-RS	19800-000027-RS	32200-015100-RS
Cable type	RS-422/485 cable	Parallel port cable	Parallel and serial 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 (2.54 mm) 10-pin (2x5) 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	2.54 mm	2.0 mm	2.0 mm
Device side	DE9M	DB25F	DB25F + DE9M	DB25F + DE9M	DB25F
Bracket	No	Yes	Yes	Yes	No
Length	20 cm	24 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.

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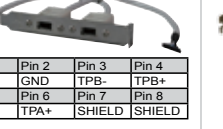

Power Supply/ Peripherals

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Cables and Connectors *USB / 1394 / Y Cable*

	USB cable				
					
Model Name	32001-010800-100-RS	32001-006404-100-RS	19800-000100-200-RS	19800-003100-200-RS	19800-003000-100-RS
Cable type	USB cable	USB cable	USB cable	USB cable	USB cable
Board side	2 x 4pin connector (2.0mm)	2 x 4pin connector (2.0mm)	2 x 4-pin (2x4) connector (2.54mm)	2 x 4-pin (1x4) connector (2.54mm)	1 x 8-pin (2x4) connector (2.0mm)
Board side pitch	2.54mm	2.00mm	2.54mm	2.54mm	2.0mm
Device side	2 x USB	2 x USB	4 x USB	2 x USB	2 x USB
Bracket	No	No	Yes	Yes	Yes
Length	20cm	22cm	30 cm	30 cm	30 cm

	USB cable			1394 cable	
					
Model Name	32001-002700-200-RS	32001-004600-100-RS	32001-008600-100-RS	CB-IEEE1394-RS	19800-000103-RS
Cable type	USB cable	USB cable	USB cable	1394 cable	1394 cable
Board side	1 x 8-pin (2x4) connector (2.54mm)	2 x 5-pin connector (2.0mm) for WAFER-8523, WAFER-945GSE3 only	1 x 8-pin (2x4) connector (2.0mm)	2 x 8-pin (1x8) connector (2.0mm)	1 x 8-pin (1x8) connector (2.0mm)
Board side pitch	2.54mm	2.0mm	2.0mm	2.0 mm	2.0 mm
Device side	2 x USB	2 x USB	2 x USB	2 x IEEE1394	1 x IEEE1394
Bracket	No	No	No	Yes	Yes
Length	21 cm	40 cm	21 cm	21 cm	25 cm

Pin 1	Pin 2	Pin 3	Pin 4
+12V	GND	TPB-	TPB+
Pin 5	Pin 6	Pin 7	Pin 8
TPA-	TPA+	SHIELD	SHIELD

	Keyboard / Mouse cable				
					
Model Name	19800-000066-RS	19800-000075-RS	32006-000300-100-RS	32000-043301-RS	32000-023800-RS
Cable type	Keyboard and mouse cable	Y-Cable	Y-Cable	Y-Cable	Y-Cable
Board side	2 x 5-pin (1x5) connector (2.54mm)	1 x 6-pin (1x6) connector (2.0mm)	1 x male PS/2	1 x 6-pin (1x6) connector (2.54mm)	1 x 6-pin (1x6) connector (2.0mm)
Board side pitch	2.54mm	2.0mm		2.54mm	2.0mm
Device side	2 x Female PS/2	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	No
Length	30 cm	22 cm	12 cm (KB) + 14 (MS)	60 cm	13 cm

	Power cable				
					
Model Name	32100-087100-RS	32100-052100-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	25cm	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	19800-000043-RS	19800-000800-100-RS	19800-000111-RS	32207-000100-100-RS	32007-002700-100-RS
Cable type	Audio and Serial cable	Audio cable	Audio cable	Audio cable	Audio cable
Board side	Audio cable : 4-pin (1x4) connector (2.54mm) Serial cable : 10-pin (2x5) connector (2.0mm)	12-pin (2x6) connector (2.0mm)	10-pin (2x5) connector (2.0mm)	10-pin (2x5) connector (2.54 mm)	16-pin (2x8) connector (2.0mm)
Board side pitch	Audio : 2.54mm Serial cable : 2.0mm	2.0mm	2.0mm	2.54 mm	2.0mm
Device side	2 x Audio jacks / 1 x DE9M	4 x Audio jacks	3 x Audio jacks	10-pin (2x5) dupon	3 x Audio jacks
Bracket	Yes	Yes	Yes	No	No
Length	30 cm	25 cm	30 cm	40 cm	25 cm

	Audio cable	LAN cable	VGA cable		
Model Name	32000-072100-RS	32000-028800-RS	32000-055702-RS	32000-033800-RS	32000-033804-RS
Cable type	Audio cable	Audio cable	LAN cable	VGA cable	VGA cable
Board side	10-pin (2x5) connector (2.0mm)	12-pin (2x6) connector (2.54mm)	10-pin (2x5) connector (2.0mm)	10-pin (2x5) connector (2.54mm)	10-pin (2x5) connector (2.0mm)
Board side pitch	2.0mm	2.54mm	2.0mm	2.54mm	2.0mm
Device side	3 x Audio jacks	4 x Audio jacks	1 x RJ-45	1 x DB15F	1 x DB15F
Bracket	No	No	No	No	No
Length	30 cm	25 cm	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 *Chassis optional 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 500	For 18" or 24" slider

DIN Rail Kit

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

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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 x 75mm	VSTAND-A07
75 x 75mm / 100 x 100mm	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:

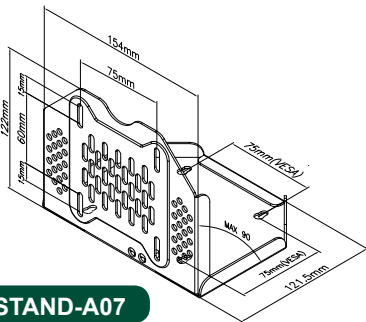
- 0° to 90° adjustable hinge design allows comfortable viewing
- Standard VESA 75/100 compliance
- Heat dissipation holes
- Compact size, easy to use in any places

Space saving and easy installation

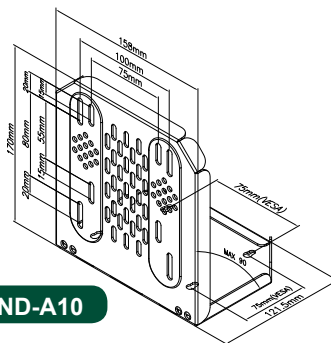


- 1: Tighten the screws in the rear of the system's VESA mounting holes
- 2: Select the position to mount the stand kit
- 3: Power up the system to operate

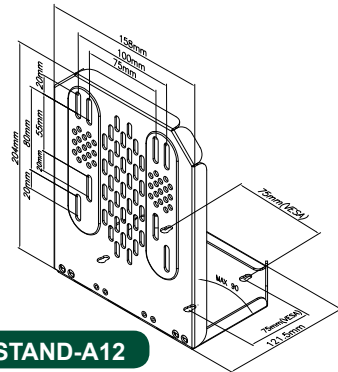
Compact size provides mobility



VSTAND-A07



VSTAND-A10



VSTAND-A12

Ordering Information

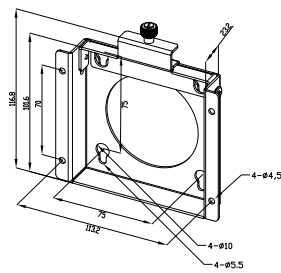
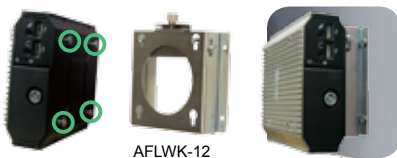
Part No.	Description
VSTAND-A07	LCD monitor / PPC stand V type, for AFL series, VESA 75, 0~90 degree adjustable hinge, support up to 2.5 kg, RoHS
VSTAND-A10	LCD monitor / PPC stand V type, for AFL series, VESA 75/100, 0~90 degree adjustable hinge, support up to 3 kg, RoHS
VSTAND-A12	LCD monitor / PPC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

Wall Mounting

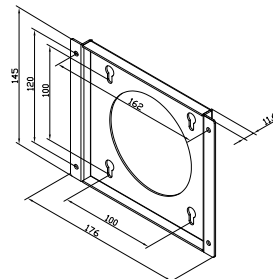
VESA 75/100 Wall Mounting

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

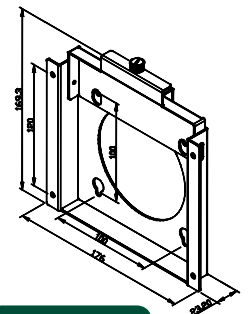
VESA	Model
75 x 75mm	AFLWK-12
100 x 100mm	AFLWK-19
	AFLWK-19B



AFLWK-12



AFLWK-19



AFLWK-19B

Ordering Information

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

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