

Industrial Keyboard Series

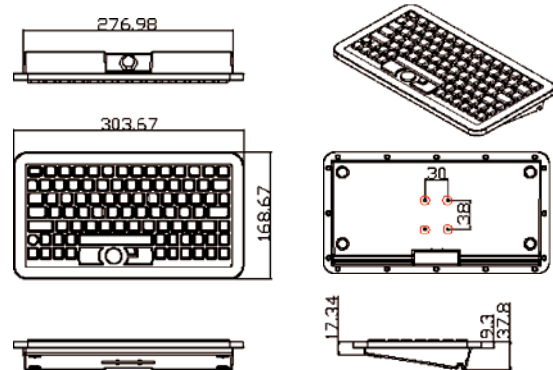
Industrial Keyboard Series						
Model Name	KM-086G	KM-088G	KM-088A-RS	MK-KTP5A	KBD-ACK-540	MK-KD1
Key Number	86-key	88-key	88-key	105-key	88/89 key	Standard 19" 1U height drawer With keylock and handle, compatible with KBD-ACK-540
Mouse	Pointing Device	Touch Pad	Pointing Device	Touch Pad	Touch Pad	
Connector	PS/2 type 6-pin mini-DIN	PS/2 type 6-pin mini-DIN	PS/2 type 6-pin mini-DIN	2x PS/2 for KB/MS	2x PS/2 for KB/MS	
LED backlight	Available Four levels					
Color	Black	Black	Black	White	White	
Water-Proof	IP-65	NA	IP-55	NA	NA	
Dimension	D304 x W169 x H38	D406.8 x W185 x H15	D370 x W139 x H16	D485 x W380 x H44	D289 x W227 x H27	D482.6 x W360 x H44

KM-086G



86-key Water-Proof Industrial Keyboard with Pointing Device (Mouse)

RoHS	RoHS compliant
Material	Industrial silicon rubber keyboard / pointing device (mouse) and plastic case
Connector	Standard PS/2 type 6-pin mini-DIN connector
Relative Humidity	0%~85%, non-condensing
Colors	Black
Dimensions (mm)	D304 x W169 x H38



Main Features

- RoHS compliant.
- Waterproof and dust proof industrial silicone rubber
- LED backlight with four levels of backlighting
- Rugged computer pointing device (mouse)
- Standard PS/2 type keyboard and mouse connectors
- Easy access to the operating system with Microsoft Window keys

IEI's water-proof IP-65 industrial keyboard provides perfect options for portable and compact applications.

The KM-086G offers both a rugged keyboard and rugged computer pointing device (mouse) in one compact package.

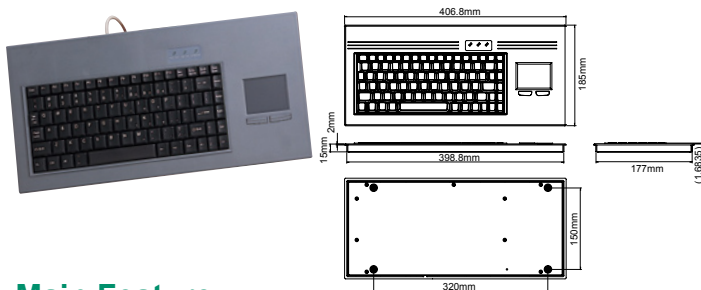
It boasts a completely sealed and ruggedized construction that allows it to be protected from water and dust, meeting IP-65 specifications.

The KM-086G's backlighting is available with yellow or red blue and orange LEDs and four levels of backlighting.



IP-65 Certificate

KM-088G



Main Feature

- Standard English language keyboard layout
- Optional Japanese, German, French and Italian keyboard layout

88-key and Touch Pad Module

RoHS	RoHS compliant
keyboard	88-keys keyboard
Connector	Standard PS/2 type 6-pin Mini-DIN cable
Operation Temp.	0~50°C
Colors	Black
Dimensions (mm)	D406.8 x W185 x H15

Ordering Information

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

Industrial Keyboard Series

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

MK-KTP5A



KBD-ACK-540



MK-KD1



MK-KD1

MK-KD1 +
KBD-ACK-540

88-key IP55 Waterproof Keyboard with Point Device

RoHS	RoHS compliant
keyboard	88-keys, keyboard compatible to IBM PC/AT
Connector	Standard PS/2 type 6-pin Mini-DIN adapter
Operation Temp.	0~50°C
Colors	Black
Dimensions (mm)	D139 x W370 x H16
MTBF	8 million life cycle times

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.

1U Rackmount keyboard & TouchPad Drawer

Compatible	105 key,compatible with IBM PC/AT ,PS2 keyboard
Touch pad	Compatible with serial and PS/2 mouse
Colors	White
Operation Temperature	0~55°C
Dimensions (D x W x H)	485 mm x 380 mm x 44 mm
N.W./G.W.	5 kg / 6 kg

Ordering Information

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

Mini 88/89 key PS/2 keyboard with touchpad

Description	Mini 88/89 key PS/2 keyboard integrated Touch-Pad
Compatible	88 key,compatible with IBM PC/AT ,PS2 keyboard
Colors	White
Operation Temperature	0~55°C
Dimensions (D x W x H)	289 mm x 227 mm x 27 mm
N.W./G.W.	0.75 kg / 1 kg
MTBF	5 million life cycles times

Ordering Information

Part No.	Description
KBD-ACK-540- [L] -RS:	Mini 88/89 key PS/2 Keyboard;RoHS [L] : Language Code: EN:English .For other languages ,please contact supplier

1U Rackmount Drawer

Description	Standard 19" 1U height drawer
Feature	With keylock and hidden handle, compatible with KBD-ACK-540
Colors	Black or White
Dimensions (D x W x H)	360 mm x 482.6 mm x 44 mm
N.W./G.W.	1.4 kg / 2 kg

Ordering Information

Part No.	Description
MK-KD1- [C] -RS:	1U Rackmount Drawer;RoHS [C] :Color Code:B=Black W=White

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Industrial Computing Solutions

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Embedded Computing Solutions

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Industrial Data Collector and Controller

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Video Capture Solutions

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I/O Communication Solutions

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Panel Solutions

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ORing Network Communication




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Power Supply/ Peripherals

Drive Bay Standard 3.5" devices 5.25" Drive Bay Solution

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



Single Bay Solutions

Single bay solutions			
Model name	RD-01-RS	RD-03A-RS	RD-04A-RS
Pictures		SATA solution 	NEW!! 
Dimensions (D x W x H)	213.3 mm x 147.3 mm x 40.6 mm	190 mm x 148 mm x 42 mm	143 x 43 x 190 mm
Material	Plastic	Aluminum alloy	Steel body
Interface	IDE 40pin	SATA	SATA
Data Transfer Rate		up to 300MB/Sec	up to 300 MB/sec
Drive Bay Space	1 x 5.25"	1 x 5.25"	1 x5.25"
HDD Type	3.5" IDE (40pin)	3.5" SATA	3.5" SATA
Cooling Fan	4010 ball bearing	4010 ball bearing	Sleeve Fan
Hot Swap		Yes	Yes
Keylock	Yes	Yes	Yes
Color	White	White	Silver
G.W.	0.3 kgs	0.3 kgs	1kgs

Ordering Information

Part No.	Description	Part No.	Description
RD-01-RS	5.25" IDE Removable Drive Bay, RoHS compliant	RD-04A-RS	5.25" Half height device, RoHS compliant
RD-03A-RS	5.25" SATA Hot-Swap Drive Bay,		

Multi-drive Dock Solutions

Multi-drive dock solutions		
Model name	RHD-302SATA-RS	RHD-403SATA-RS
Pictures	SATA solution 	SATA solution 
Dimensions (D x W x H)	220 mm x 148 mm x 85.8 mm	220 mm x 148 mm x 127 mm
Material	Aluminum alloy	Aluminum alloy
Interface	SATA	SATA
Data Transfer Rate	up to 300MB/Sec	up to 300MB/Sec
Drive Bay Space	2x5.25" drive bay for 3x3.5" HDD	3x5.25" drive bay for 4x3.5" HDD
HDD Type	3.5" SATA	3.5" SATA
Cooling Fan	8020 ball bearing (Removable)	8020 ball bearing (Removable)
Hot Swap	Yes	Yes
Keylock		
Signal out	HDD Power signal Out (+5V, GND) x 3 Temperature over heat signal Out (5V, GND) x 1 Fan Fail Signal Out (5V, GND) x 1 HDD Access Signal Out (+5V, GND) x 3 Reset Signal Out (High, GND) x 1	HDD Power signal Out (+5V, GND) x 4 Temperature over heat signal Out (5V, GND) x 1 Fan Fail Signal Out (5V, GND) x 1 HDD Access Signal Out (+5V, GND) x 4 Reset Signal Out (High, GND) x 1
Color	Black bezel and silver housing	Black bezel and silver housing
G.W.	1.0 kgs	1.3 kgs

Ordering Information

Part No.	Description
RHD-302SATA-RS	Multi-drive dock for Three 3.5" SATA HDD trays, RoHS
RHD-403SATA-RS	Multi-drive dock for Four 3.5" SATA HDD trays, RoHS

FCD-301



3.5" compact drive bay with USB port

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

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

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

Anti-vibration Drive Kit



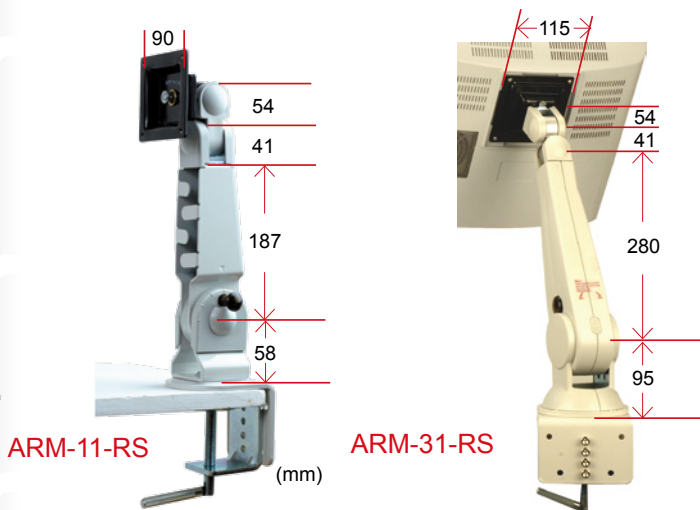
- Resistant to shocks and vibrations from all directions
- Support 2.5" HDD into 3.5" drive bay (AS-25A/ 25C)
Support 3.5" HDD into 5.25" drive bay (AS-35A)
- Meets the following standards:
 - MIL-SLD-810F 514.5C-1 standard
 - 5-20Hz, 1G peak to peak
 - 60-200Hz, 3G peak to peak
- RoHS compliant

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

VESA Mounting Solutions

ARM Solutions



- Adjusts the screen to the most comfortable viewing angle
- Arms provide up and down, left and right, front and back, pivot and tilting capability
- Meets VESA standard (Video Electronics Standards Association) with two mounting plates specs provided: 75mm x 75mm & 100mm x 100mm
- ARM-11: Weight capacity from 3kg~6kg
- ARM-31: Weight capacity from 7kg~14kg
- RoHS compliant

Ordering Information

Part No.	Description
ARM-11-RS	Flat Panel Monitor Arm, VESA 75/100, 3kg~6kg; RoHS
ARM-31-RS	Flat Panel Monitor Arm, VESA 75/100, 7kg~14kg; RoHS

Stand Solutions

STAND-100-RS LCD Monitor Stand

- Universal screen mounting system accommodates all VESA 75/100 standards
- Material: Heavy-duty steel
- Multi-screen angle adjusted to LCD monitor
- Flat Panel Monitor Stand Loading capacity from 3 to 8kg various demands
- Color: White (Pantone 413C)
- Support DM-104, DM-121, DM-150, DM-170, SRM-121, SRM-150, SRM-170 products

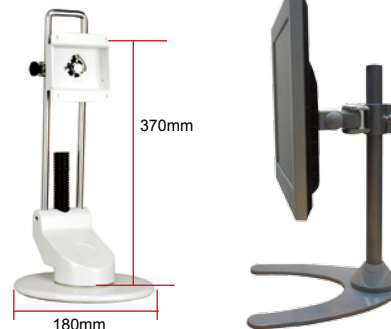


STAND-150 & 210

- STAND-150 & 210 could be designed for locations where industrial LCD PCs or monitors are required to be fixed in place, such as dental clinics, banks, convenience stores, department stores, hotel check-in counters, beauty salons, cyber cafes, libraries and building control centers.
- Support VESA 75/100 standard
- STAND-150: Weight capacity up to 9kg, Tilt angle: +/- 35° (up/down; w/o Monitor)
- STAND-210: Weight capacity from 7kg~14kg
- RoHS compliant

STAND-150-RS

STAND-210-RS



Ordering Information

Part No.	Description
STAND-100-RS	LCD Monitor Stand for 3~8kg

Ordering Information

Part No.	Description
STAND-150-RS	LCD Monitor Stand, VESA 75, support up to 9kg, RoHS
STAND-210-RS	LCD Monitor Stand; VESA 75/100, 7kg~14kg, RoHS

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Industrial Data Collector and Controller

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Video Capture Solutions

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ORing Network Communication

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Power Supply/ Peripherals

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 CPU Cooler					
LGA775 Cooler					
Model Name	CF-775A-RS	CF-775B-RS	CF-775C-RS	CF-775D-RS	CF-520-RS-R11
Description	High Performance Two Copper Pipes LGA 775 CPU Cooler, RoHS	High Performance 1U LGA 775 CPU Cooler , w/ 7010 fan,Copper , RoHS	High Performance Slim Type LGA 775 CPU Cooler, RoHS	3U LGA 775 CPU cooler, Al extruded Heat Sink with Copper insert, RoHS	High Performance LGA 775 socket CPU Cooler, RoHS
CPU Solution	Core™2 Quad	Core™2 Duo	Core™2 Duo	Core™2 Duo	Core™2 Duo
Socket solution	LGA 775	LGA 775	LGA 775	LGA 775	LGA 775
Dimension	92x92x73	90x90x25.1	90x90x18	80x80x31.5	115x115x67
Material	Cu-Al	Cu	Aluminum	Aluminum Alloy	Aluminum Alloy
Bearing Type	Rifle	Two ball	Ball Bearing	Dual ball	Two ball
Capability(Watt)	130W	90W	65W	65W	115W
Fan Speed (RPM)	3600	4800	4500	3800	4500
Noise Level (dBA)	36.6~39.6	40.3~44.3	39.3	35.8	47.5~51.5
Life Expectance (hrs)	40000	50000	40000	70000	70000
Weight	492g	600g	137g	350g	635g

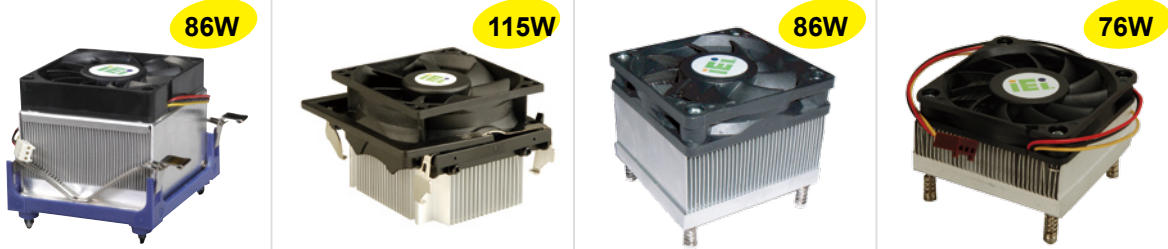
Desktop CPU Cooler				
Pentium® 4 Cooler				
Model Name	CF-478A-RS	CF-478B-RS	CF-478D-RS-R11	CF-478E-RS-R11
Description	High Performance Copper Socket 478 CPU Cooler, RoHS	High Performance Heat pipe Socket 478 1U CPU Cooler, RoHS	Socket 478 1U CPU Cooler	Socket 478 2U CPU Cooler
CPU Solution	Pentium®4	Pentium®4	Pentium® 4 / AMD AM2	Pentium® 4 / AMD AM2
Socket solution	Socket 478	Socket 478	Socket 478 / Socket AM2 for iEi SBC	Socket 478 / Socket AM2 for iEi SBC
Dimension	92x92x67	89x76x26	83 x 68.8 x 31.2	83 x 69 x 43.4
Material	Cu	Cu-Al	Cu	Cu
Bearing Type	Rifle	Two ball	Two ball	Two ball
Capability(Watt)	115W	86W	65W	120W
Fan Speed (RPM)	3600	4800	4800	4500
Noise Level (dBA)	39.6	37	37	39
Life Expectance (hrs)	40000	40000	50000	70000
Weight	390g	204g	470g	567g

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- 3 Industrial Data Collector and Controller
- 4 Video Capture Solutions
- 5 I/O Communication Solutions
- 6 Panel Solutions
- 7 ORing Network Communication
- 8 Power Supply/ Peripherals

CPU Cooler

High performance thermal solutions

Desktop CPU Cooler



Pentium® 4 Cooler

Model Name	CF-514-RS	CF-519-RS	CF-521-RS	CF-522-RS
Description	High Performance Skiving Pentium 4 CPU Cooler, RoHS	High Performance Copper Core Socket 478 CPU Cooler, RoHS	High Performance Socket-478 Pentium 4 CPU Cooler, RoHS	High Performance Socket-478 1U Pentium 4 CPU Cooler, RoHS
CPU Solution	Pentium®4	Pentium®4	Pentium®4	Pentium® 4
Socket solution	Socket 478	Socket 478	Socket 478	Socket 479
Dimension	83x70x55	92x92x67	60x60x47	60x60x30
Material	Aluminum Alloy	Cu	Al	Al
Bearing Type	Two ball	Rifle	Two ball	Two ball
Capability(Watt)	86W	115W	86W	76W
Fan Speed (RPM)	4800	3600	4800	4800
Noise Level (dBA)	42.4	39.6	37	37
Life Expectance (hrs)	50000	40000	40000	50000
Weight	284g	390g	173g	120g

Desktop CPU Cooler



Pentium® 3 Cooler

Model Name	CF-507-RS	CF-512-RS	CF-370A-RS
Description	Socket 370 Retention kit full metal material, RoHS	High Performance Copper type Cooler support P4 CPU up to 2.5GHz, RoHS	High Performance Slim Type Socket 370 CPU Cooler, RoHS
CPU Solution	Pentium® 3	Pentium® 3 P4 CPU upto 2.5G	Pentium® 3
Socket solution	Socket 370	Socket 370/462/478	Socket 370
Dimension	53x51x25.5	60 x 60 x 29	50x52x20
Material	Cu	Cu	Cu-Al
Bearing Type	One ball	Two ball	Two ball
Capability(Watt)	21.4W	30W	40W
Fan Speed (RPM)	4500	4200	5500
Noise Level (dBA)	32.5	33	32.1
Life Expectance (hrs)	50000	70000	40000
Weight	160g	260g	62g

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CPU Cooler

High performance thermal solutions

Mobile CPU Cooler



Pentium® M Cooler

Model Name	CF-479A-RS	CF-479B-RS	CF-479D-BGA-RS	CF-518-RS
Description	High Performance Socket-479 Pentium M CPU Cooler, RoHS	High Performance Socket-479, M and P Pentium M CPU Cooler, RoHS	Pentium® M on Board (BGA type) CPU Cooler	High Performance Pentium-M CPU Cooler, RoHS
CPU Solution	Pentium® M	Pentium® M, Core™2 Duo (Mobile)	Pentium® M, Core™2 Duo	Pentium® M
Socket solution	Socket 479	Socket 479		Socket 479
Dimension	60x60x39.5	50x50x26	40 x 40 x10 mm	60x60x26
Material	Al	Al	Alluminum Alloy	Aluminum Alloy
Bearing Type	Two ball	Two ball	Two ball	Two ball
Capability(Watt)	86W	50W	27W	20W
Fan Speed (RPM)	4800	6000	5500	5000
Noise Level (dBA)	37	39	25	36.1
Life Expectance (hrs)	40000	40000	50000	50000
Weight	145g	86g	85g	116g

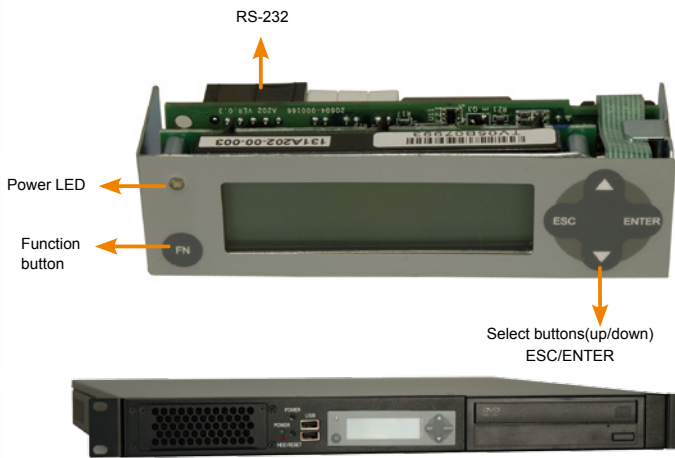
CPU Cooler



Model Name	BF-02-RS	BF-03-RS	CF-KIT05-RS
Description	Bracket Cooling Fan, RoHS	Bracket Cooling Fan with 2 slots, RoHS	Socket 478 Retention kit full metal material, RoHS
CPU Solution	Bracket cooling fan	Bracket cooling fan w/ 2 slots	Socket 478 Retention kit
Socket solution			
Dimension	112 x 90 x 21	111 90.6 34.6	89 x 78 x 33
Material	Plastic	Plastic	Steel
Bearing Type	One ball	One ball	
Capability(Watt)			
Fan Speed (RPM)	2800	2800	
Noise Level (dBA)	28	31	
Life Expectance (hrs)	45000	35000	
Weight	107.5g	149g	72g

LCM-02G

16x2 LCD Message Module



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

Main Features



LED Back Light On

- ◆ 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.)

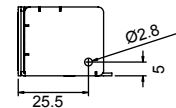
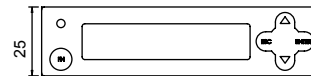
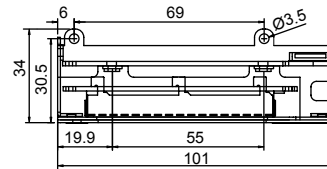
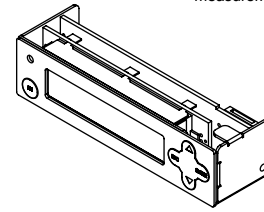
Packing List



- 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

Dimensions

measurement units: millimeter



Specification

◆ 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	0~50oC
◆ Dimensions (WxHxD)	101mm x 25mm x 34mm

Ordering information

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

IR210L-RS

Infrared data communication adapter, RoHS



Packing List

Packing List	
1 x IR210L-RS	
1 x 5 Pin Motherboard connector	
1 x 5 Pin to 6 Pin cable	
1 x user manual	

Ordering information

Part No.	Description
IR210L-RS	Infrared data communication adapter;RoHS

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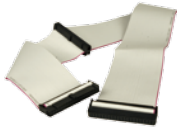



6 Panel Solutions





7 ORing Network Communication





8 Power Supply/ Peripherals

Cables and Connectors

FDD / HDD cable

	FDD cable		SATA HDD cable	
				
Model name	32200-000017-RS	32200-000058-RS	32000-062800-RS	32102-000100-100-RS 32102-000100-200-RS
Cable type	FDD flat cable	FDD flat cable	SATA HDD cable	SATA power cable
Connector	34p-34p-34p	34p-34p	SATA 7-pin	4-pin model - 2 x SATA 15-pin
Connector type	2.54 mm	2.54 mm-2.0 mm	Lockable	SATA Power connector
Length	37 cm + 15 cm	35 cm	50 cm	15 cm

	SATA HDD cable			
				
Model name	32000-080700-RS	32000-114000-RS	32000-123000-RS	32801-000100-100-RS
Cable type	SATA + Power cable kit	SATA + Power cable kit	SATA + Power cable	SATA + Power cable
Connector	SATA 7-pin + 4-pin model	SATA 7-pin + 2-pin wafer 2.0mm	SATA 7pin + 4-pin wafer 2.54mm	SATA 7-pin + 4-pin wafer 2.54mm
Connector type		2-pin PH 2.0	4-pin Mox 2.54 mm	4-pin PH 2.54 mm
Length	SATA cable 20 cm Power cable 10 cm	SATA cable 15 cm Power cable 15 cm	SATA cable 12 cm Power cable 9 cm	SATA cable 20 cm Power cable 20 cm

	IDE HDD cable			
				
Model name	32200-000005-RS	32200-000009-RS	32200-000037-RS	32200-025001-RS
Cable type	IDE HDD flat cable	IDE HDD flat cable	IDE HDD flat cable	IDE HDD flat cable
Connector	40p-40p-40p	44p-44p	44p-44p	44p-40p-40p
Connector type	2.54mm	2.0mm -2.0mm	2.0mm -2.0mm	2.0mm-2.54mm-2.54mm
Length	40 cm + 17 cm	40 cm	25 cm	20 cm + 15 cm

	IDE HDD cable			
				
Model name	32200-000052-RS	32200-008800-RS	CB-HD32-RS	CVT-4044-RS
Cable type	ATA-66 HDD flat cable	ATA-33 HDD flat cable	IDE HDD 40p to 44p	IDE 40p to 44p adapter
Connector	40p-40p-40p	44p-40p-40p	40p-44p	40p-44p
Connector type	2.54mm	2.0mm-2.54mm-2.54mm	2.54mm-2.0mm	2.54mm-2.0mm
Length	30 cm + 15 cm	20 cm + 15 cm	IDE cable: 39 cm Power cable: 20 cm	Power cable: 20 cm

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Cables and Connectors

Paralle / Serial cable

	Paralle cable				Serial cable
					NEW!!
Model name	19800-00049-RS	19800-00050-RS	19800-00027-RS	32200-015100-RS	19800-000300-100-RS
Cable type	Parallel port cable	Parallel and serial port cable	Parallel and serial port cable	Parallel port cable	Single com port
Board side	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)	10-pin (2x5) connector (2.0 mm)
Board side pitch	2.54 mm	2.54 mm	2.0 mm	2.0 mm	2.0 mm
Device side	DB25F	DB25F + DE9M	DB25F + DE9M	DB25F	2.0 mm
Bracket	Yes	Yes	Yes	No	YES
Length	24 cm	24 cm	24 cm	28 cm	30cm

	Serial cable					
Model name	19800-000114-RS	19800-00047-RS	19800-000051-RS	19800-000113-RS	19800-000112-RS	32200-000015-RS
Cable type	Single com port	Serial port cable	Serial port cable	Serial port cable	Serial port cable	Serial port cable
Board side	10-pin (2x5) connector (2.54 mm)	10-pin (2x5) connector (2.54 mm)	2 x 10-pin (2x5) connector (2.54 mm)	2 x 10-pin (2x5) connector (2.0 mm)	2 x 10-pin (2x5) connector (2.0 mm)	10-pin (2x5) connector (2.54 mm)
Board side pitch	2.54 mm	2.54 mm	2.54 mm	2.54 mm	2.0 mm	2.54 mm
Device side	DE9M	DE9M	2 x DE9M	2 x DE9M	2 x DE9M	DE9M
Bracket	Yes	Yes	Yes	Yes	Yes	No
Length	50 cm	30 cm	23 cm	40 cm	30 cm	23 cm

	Serial cable					
Model name	32200-000049-RS	32200-025400-RS	IO-KIT-4COM-R10	32100-147900-RS	32200-025401-RS	32200-026800-RS
Cable type	Serial port cable	4 x com port	Serial port cable	Serial port cable	Serial port cable	RS-422/485 cable
Board side	10-pin (2x5) connector (2.0 mm)	40-pin (2x20) connector (2.54 mm)	40-pin (2x20) connector (2.54 mm)	40-pin (2x20) connector (2.0 mm)	40-pin (2x20) connector (2.0 mm)	16-pin (2x8) connector (2.54 mm)
Board side pitch	2.0 mm	2.54 mm	2.0 mm	2.0 mm	2.0 mm	2.54 mm
Device side	DE9M	4 x DE9M	4 x DE9M	4 x DE9M	4 x DE9M	4 x DE9M
Bracket	No	No	No	No	No	No
Length	20 cm	15/20/25/30 cm	15 cm	30 cm	30 cm	12 cm

	Serial cable					
	NEW!!					
Model name	19800-000058-RS	19800-000110-RS	32200-026500-RS	32200-000061-RS	19800-000063-RS	32200-074800-RS
Cable type	RS-232 & 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	RS-422/485 cable
Board side	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)	4-pin (1x4) connector (2.54 mm)	4-pin (1x4) connector (2.0 mm)
Board side pitch	2.54 mm	2.0 mm	2.0 mm	2.0 mm	2.54 mm	2.0 mm
Device side	2 x DE9M	2 x DE9M	2 x DE9M	2 x DE9M	DE9M	DE9M
Bracket	Yes	Yes	No	No	No	No
Length	25.5 cm	25 cm	29 cm	23 cm	40 cm	20 cm

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6 Panel Solutions



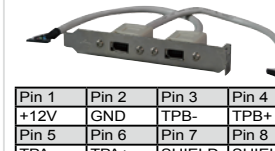
7 ORing Network Communication


8 Power Supply/ Peripherals

Cables and Connectors






USB / 1394 / Y Cable


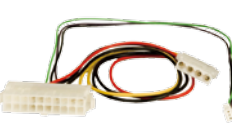
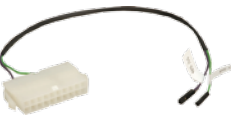


USB cable				
				
Model name	CB-USB14-RS	CB-USB02-RS	CB-USB02A-RS	32000-044300-RS
Cable type	USB cable	USB cable	USB cable	USB cable
Board side	2 x 4-pin (2x4) connector (2.54mm)	2 x 4-pin (1x4) connector (2.54mm)	1 x 8-pin (2x4) connector (2.0mm)	1 x 8-pin (2x4) connector (2.54mm)
Board side pitch	2.54mm	2.54mm	2.0mm	2.54mm
Device side	4 x USB	2 x USB	2 x USB	2 x USB
Bracket	Yes	Yes	Yes	No
Length	30 cm	30 cm	30 cm	21 cm

USB cable		1394 cable	
			
Model name	32000-073400-RS	32000-070301-RS	CB-IEEE1394-RS
Cable type	USB cable	USB cable	1394 cable
Board side	1 x 8-pin (2x4) connector (2.0mm)	1 x 8-pin (2x4) connector (2.0mm)	2 x 8-pin (1x8) connector (2.0mm)
Board side pitch	2.0mm	2.0mm	2.0 mm
Device side	2 x USB	2 x USB	2 x IEEE1394
Bracket	No	No	Yes
Length	40 cm	21 cm	21 cm

1394 cable	
	
Model name	19800-000103-RS
Cable type	1394 cable
Board side	1 x 8-pin (1x8) connector (2.0mm)
Board side pitch	2.0 mm
Device side	1 x IEEE1394
Bracket	Yes
Length	25 cm

Pin Configuration			
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	32000-133200-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	12cm(KB) + 14(MS)	60 cm	13 cm

Power cable					
					
Model name	32100-087100-RS	32100-052100-RS	32100-043403-RS	32100-192900-RS	32100-130300-RS
Cable type	12V Power cable	ATX function cable	ATX function 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 20-pin ATX power 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	PS_ON 2.54mm connector	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	30 cm	25 cm	10 cm

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Cables and Connectors

Audio / LAN / VGA / TV Cable

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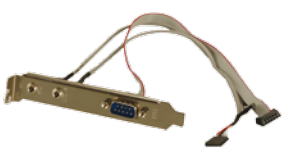
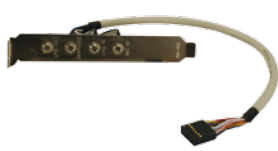
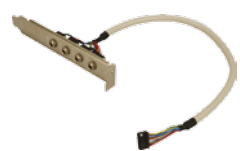

4 Video Capture Solutions





5 I/O Communication Solutions

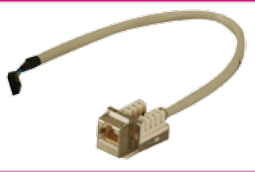


6 Panel Solutions






7 ORing Network Communication

8 Power Supply/ Peripherals

Audio cable				
				
Model name	19800-000043-RS	19800-000020-RS	19800-000044-RS	19800-000111-RS
Cable type	Audio and Serial 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 (2.54mm)	12-pin (2x6) connector (2.0mm)	10-pin (2x5) connector (2.0mm)
Board side pitch	Audio : 2.54mm Serial cable: 2.0mm	2.54mm	2.0mm	2.0mm
Device side	2 x Audio jacks 1x DE9M	4 x Audio jacks	4 x Audio jacks	3 x Audio jacks
Bracket	Yes	Yes	Yes	Yes
Length	30 cm	25 cm	25 cm	30 cm

Audio cable				
				
Model name	32000-028800-RS	32000-000147-RS	32000-072100-RS	32000-036500-RS
Cable type	Audio cable	Audio cable	Audio cable	Audio cable
Board side	12-pin (2x6) connector (2.54mm)	16-pin (2x8) connector (2.0mm)	10-pin (2x5) connector (2.0mm)	1 x Audio jacks 3.5mm
Board side pitch	2.54mm	2.0mm	2.0mm	3.5mm
Device side	4 x Audio jacks	3 x Audio jacks	3 x Audio jacks	1 x Audio jacks 3.5mm
Bracket	No	No	No	No
Length	25 cm	25 cm	30 cm	18 cm

	LAN cable	VGA cable	
			
Model name	32000-055702-RS	32000-033800-RS	32000-033804-RS
Cable type	LAN cable	VGA cable	VGA cable
Board side	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
Device side	1 x RJ-45	1 x DB15F	1 x DB15F
Bracket	No	No	No
Length	31 cm	30 cm	30 cm

TV/HDTV-output cable					
		NEW!! 	NEW!! 		
Model name	19800-000056-RS	32000-083100-RS	32000-083700-RS	32000-083701-RS	32000-083702-RS
Cable type	TV-out cable	HDTV cable	HDTV cable	HDTV cable	HDTV cable
Board side	6-pin (2x3) connector (2.54mm)	1 x Mini-DIN 7-pin connector	1 x Mini-DIN 7-pin connector	6-pin (2x3) connector (2.54mm)	6-pin (2x3) connector (2.0mm)
Board side pitch	2.54mm			2.54mm	2.0mm
Device side	1 x RCA jack 1 x S-video jack	3 x RCA jack 1 x S-video jack	3 x RCA jack	3 x RCA jack	3 x RCA jack
Bracket	Yes	No	No	No	No
Length	25 cm	20 cm	15 cm	20 cm	20 cm

Optional Accessories for Chassis Chassis optional Accessories

NEW!!



Drive bay

Model Name	XWC-410030507220-RS	XWC-410030507230-RS	7G000-ST1110L-RS	RHF-21-IDE-RS	RHF-21-SATA-RS
Dimension (Front factor)	5.25" drive bay	5.25" drive bay	L185 x W126.5 x H28	3.5" drive bay	3.5" drive bay
Driver	3.5" FDD or HD	3.5" FDD or HD	3.5" SATA HDD	2.5" IDE HDD	2.5" SATA HDD
Color	Black	White	White	Black	Black
Removeable	No	No	Yes	Yes	Yes
Keylock	No	No	Yes	Yes	Yes
Compatible model	All IEI chassis w/ standard 5.25" drive bay	All IEI chassis w/ standard 5.25" drive bay	PAC-400G	All IEI chassis w/ standard 3.5" drive bay	All IEI chassis w/ standard 3.5" drive bay



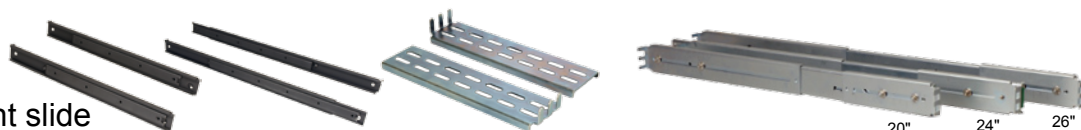
Round cable

Model name	32000-026800-RS	32000-026900-RS	32100-047401-RS
Cable type	ATA-66 HDD rounded cable	ATA-66 HDD rounded cable	USB cable
connector	IDE 40p-40p	IDE 40p-40p	1 x 4-pin (1x4) wafer connector (2.0mm)
Board side pitch	2.54mm	2.54mm	2.0mm
Device side	IDE 40-pin	IDE 40-pin	1 x 4-pin (1x4) connector (2.0mm)
Length	75 cm	45 cm	50 cm
Compatible model	RACK-115G, RACK-1151G, RACK-3200G	RACK-115G, RACK-1151G	Fro front accessible USB port



System FAN

Model Name	XWC-3012025001-RS	XWC-3008025020-RS	XWC-3006025003	XWC-3004020003
Dimension	12 cm ball bearing fan	8 cm ball bearing fan	6 cm ball bearing fan,	4 cm ball bearing fan
CFM	96.79 CFM	42.2 CFM	17.18 CFM	8.16 CFM
MTBF	50,000 hrs	50,000 hrs	50,000 hrs	50,000 hrs
Operating Temp.	-5°C ~ 65°C	-5°C ~ 65°C	-5°C ~ 65°C	-5°C ~ 65°C
Compatible model	RACK-360G	RACK-220G, RACK-2000G, RACK-1350G, RACK-3400G, RACK-305G, RACK-814G, RACK-3000G, RACK-3200G, RACK-500G, RACK-900G, RACK-3035G, PAC-42GF, PAC-1000G, PAC-106G, PAC-107G, PAC-1700G, PAC-125G, PAC-42GH, PR-1500G, PAC-400G, PAC-700G	RACK-1350G, RACK-305GATX, RACK-360GATX, PR-1300G	RACK-1150G, RACK-1151G, EBC-1000G



Rackmount slide

Model Name	SLIDE-18	SLIDE-24	EXTENDER-6	SLIDE-20NJ	SLIDE-24NJ	SLIDE-26NJ
Specification	18" rackmount slide	24" rackmount slide	6" extender	20" slide mount	24" slide mount	26" slide mount
Description	For rackmount chassis w/ depth up to 500	For rackmount chassis w/ depth up to 500	For 18" or 24" slider	20-inch 100 pound loading ball bearing rack-mount slide, RoHS	24-inch 100 pound loading ball bearing rack-mount slide, RoHS	26-inch 100 pound loading ball bearing rack-mount slide, RoHS

Mini jumper

Model name	33100-000033-RS	33100-000079-RS
Cable type	Mini jumper pack	Mini jumper pack
Pitch	2.0 pitch Black color	2.54 pitch Blue color



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Power Supply/ Peripherals

Industrial Flash Module Series Complete Industrial SLC Solution

The Best Flash Storage Solutions-IEI Technology Corp.



**SLC
Only**



Industrial Flash Module Solution

Item	Part No.	Description	Capacity												
			128MB	256MB	512MB	1GB	2GB	4GB	8GB	16GB	32GB	64GB	128GB		
Industrial PCIe miniDOM															
IPE 2500C	0°C~70°C	IPE-5200CR-XXXXX	miniPCIe												
IPE 2500W	-40°C~85°C	IPE-5200WR-XXXXX													
Industrial CF Card															
ICF 8000	0°C~70°C	ICF-8000CD-XXXXX	CF 50pin												
	-40°C~85°C	ICF-8000WD-XXXXX													
ICF 1000+	0°C~70°C	ICF-1000IPX-XXXXX	CF 50pin												
	-40°C~85°C	ICF-1000WPX-XXXXX													
Industrial IDE Flash Module															
IFM 8000	0°C~70°C	IFM-8000CD-XXXXX	IDE 40pin/Vertical												
	-40°C~85°C	IFM-8000WD-XXXXX													
IFM 8800	0°C~70°C	IFM-8800CD-XXXXX	IDE 44pin/Vertical												
	-40°C~85°C	IFM-8800WD-XXXXX													
IFP 8800	0°C~70°C	IFP-8800CD-XXXXX	IDE 44pin/Horizontal												
	-40°C~85°C	IFP-8800WD-XXXXX													
IFM 4000+	0°C~70°C	IFM-4000IPX-XXXXX	IDE 40pin/Vertical												
	-40°C~85°C	IFM-4000WPX-XXXXX													
IFM 4400+	0°C~70°C	IFM-4400IPX-XXXXX	IDE 44pin/Vertical												
	-40°C~85°C	IFM-4400WPX-XXXXX													
IFP 2000	0°C~70°C	IFP-2000IPX-XXXXX	IDE 44pin/Horizontal												
	-40°C~85°C	IFP-2000WPX-XXXXX													
Industrial SATA Flash Module															
IFM 3300IS	0°C~70°C	IFM-3300IS-XXXXX	SATA I 7pin/Vertical												
IFM 3300WS	-40°C~85°C	IFM-3300WS-XXXXX													
IFM 3300IPS	0°C~70°C	IFM-3300IPS-XXXXX	SATA I 7pin/Vertical												
IFM 3300WPS	-40°C~85°C	IFM-3300WPS-XXXXX													
IFM 3000IS	0°C~70°C	IFM-3000IS-XXXXXX	SATA I 7pin/Vertical												
IFM 3000WS	-40°C~85°C	IFM-3000WS-XXXXXX													
IFM 3000ILVS	0°C~70°C	IFM-3000ILVS-XXXXXX	SATA I 7pin/Vertical												
IFM 3000WLVS	-40°C~85°C	IFM-3000WLVS-XXXXXX													
IFM 3000IPS	0°C~70°C	IFM-3000IPS-XXXXXX	SATA I 7pin/Vertical												
IFM 3000WPS	-40°C~85°C	IFM-3000LPS-XXXXXX													
IFM 3000ILPS	0°C~70°C	IFM-3000ILPS-XXXXXX	SATA I 7pin/Horizontal												
IFM 3000WLPS	-40°C~85°C	IFM-3000WLPS-XXXXXX													
Industrial 2.5" Flash Disk															
IFD 2510RS	0°C~70°C	IFD-2510RS-XXXXX	SATA I 2.5" 7+15pin												
IFD 2510RW	-40°C~85°C	IFD-2500RW-XXXXX													
IFD 2510IS	0°C~70°C	IFD-2510IS-XXXXX	SATA II 2.5" 7+15pin												
IFD 2510WT	-40°C~85°C	IFD-2510WT-XXXXX													
IFD 2000JC	0°C~70°C	IFD-2000JC-XXXXX	SATA II 2.5" 7+15pin												
IFD 2000JW	-40°C~85°C	IFD-2000JW-XXXXX													
IFD 2500JC	0°C~70°C	IFD-2500JC-XXXXX	IDE 2.5" 44pin(2.0mm)												
IFD 2500JW	-40°C~85°C	IFD-2500JW-XXXXX													

XXXXX=Capacity-128MB/256MB/512MB/1GB/2GB/4GB/8GB/16GB/32GB/64GB/128GB

Industrial DRAM Module Solution

Item	Part No.	Capacity										
		128MB	256MB	512MB	1GB	2GB	4GB	8GB	16GB	32GB	64GB	128GB
Wide Temp. Solution												
Industrial DDR2 Memory Module												
DDR2 Low Profile	79800-M512-022-RS											
	79800-G001-025-RS											
DDR2 SO-DIMM	79900-M512-015-RS											
	79900-G001-023-RS											
Industrial DDR Memory Module												
DDR Low Profile	79300-M512-070-RS											
DDR Long DIMM	79300-G001-044-RS											
DDR SO-DIMM	79300-M512-069-RS											
	79300-G001-046-RS											

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Industrial Flash Module Series Complete Industrial SLC Solution

The Best Flash Storage Solutions-iFM 3000/3300 Series

Introduction

IEI IFM3300 Series offers capacities from 2GB to 32GB. IFM3300 supports SATA II standard interface with excellent and fast data transfer rate; in sustain read 100MB/s (max.) and sustain write 50MB/s (max.). Moreover, IEI IFM3300 is the smallest form factor in the world that enhances functionality with various design applications. It has built-in power at pin 7th of the SATA connector; in other words, it could be connected to the SATA port without additional power cable. Another advanced design of IEI IFM3300 is the connector with latch and thus such secured mechanical design will improve data transfer reliability while the device is under operation .

- High Reliability
- Zero Mechanical Interference
- Anti-Vibration Connector Design
- Built-in Power Pin Design
- Intelligent Wear Leveling
- Auto ECC Function

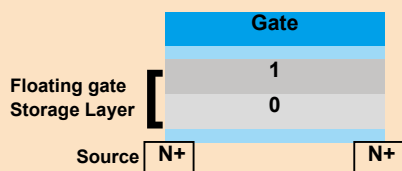


Item	IFM-3300IS(W/S) IFM-3300IPS(W/P/S)	IFM-3000IS(W/S) IFM-3000IPS(IPS)	IFM-3000ILVS(W/LVS) IFM-3000ILPS(W/LPS)
Picture			
Capacities	2GB~32GB	128MB~8GB	128MB~8GB
Interface	SATA II	SATA I	SATA I
Data Transfer Rate	Read: 100MB/sec. ; Write: 50MB/sec.	Read-24MB/sec. ; Write-14MB/sec.	Read-24MB/sec. ; Write-14MB/sec.
Operation Temp.	0°C~+70°C -40°C~+85°C	0°C~+70°C -40°C~+85°C	0°C~+70°C -40°C~+85°C
Storage Temp.	-55°C~+95°C	-55°C~+95°C	-55°C~+95°C
Vibration	20G(7~2000Hz)	5G(7~2000Hz)	5G(7~2000Hz)
Shock	50G/10ms	50G/10ms	50G/10ms
DC Input Voltage	+5V single power supply operation	+5V single power supply operation	+5V single power supply operation
Power Mode	Auto stand-by mode	Auto stand-by mode	Auto stand-by mode
Power Consumption	150mA	180mA	180mA
Dimension	IFM-3300IS(W/S): 25x39.4x6.5mm (WxLxH) IFM-3300IPS(W/P/S): 40x30x11.4mm (WxLxH)	IFM-3000IS(W/S): 20.8x32.8x8.0mm (WxLxH) IFM-3000IPS(W/P/S): 18.0x30.3x11.4mm (WxLxH)	Low-profile: 32.8x29.6x8.0mm (WxLxH) Low-profile: 30x20.3x11.4mm (WxLxH)
Certificate	CE/FCC/ROHS	CE/FCC/ROHS	CE/FCC/ROHS

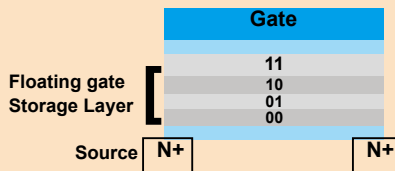
SLC vs. MLC Comparison table

Single-level cell (SLC) and multi-level cell (MLC) Flash memory are similar in their design. MLC Flash devices cost less and allow for higher storage density. SLC Flash devices provide faster write performance and greater reliability, even at temperatures above the operating range of MLC Flash devices.

SLC
(Single-Level Cell) Structure chart



MLC
(Multi-Level Cell) Structure chart



These factors make SLC Flash a good fit in embedded systems, while MLC flash makes it possible to create affordable mobile devices with large amounts of data storage.

	SLC	MLC
Density	16Mbit	32Mbit / 64Mbit
Read Speed	100ns	120ns / 150ns
Block Size	64Kbyte	128Kbyte
Architecture	x8	x8 / x16
Endurance	100,000 cycles	10,000 cycles
Operating Temperature	-40°C ~ 85°C	0°C ~ 70°C

Industrial Flash Module Series Complete Industrial SLC Solution

The Best Flash Storage Solutions-iFD 2.5" Series

iFD 2.5" Industrial SSD Series

IEI iFD 2.5" SSD supporting SATA and ATA solutions features anti-vibration, low power consumption, high performance and perfect reliability. SSD not only performs much better IOPS than HDD but also can be operated anytime because of no mobile components like the motor, bearing or and rotating head. In addition, SSD can absolutely fulfill specialized application performing in any harsh environment.



•ATA interface 44pin(2.0mm)



•SATA interface 7+15pin

•ATA interface compared with SATA interface

Interface Item	ATA	SATA I	SATA II
Data Transfer Rate	Ultra DMA Mode 6 133MB/sec.	150MB/ sec.(max)	300MB/ sec.(max)
Reliability	Fair	Better	Better
Power Consumption	Higher	Lower	Lower
Heat Delivery	Fair	Better	Better
support	No	Yes	Yes



iFD Series Specification

Item	iFD-2500JC(JW)	iFD-2510IS(WT)	iFD-2510RS(RW)	iFD-2000JC(JW)
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Capacities	8GB~128GB	8GB~128GB	1GB~32GB	8GB~128GB
Interface	44pin (2.0mm) IDE/ATA	Serial ATA II 3.0G	Serial ATA II 3.0G	Serial ATA II 3.0G
Transfer Mode	PIO Mode 0-4 UltraDMA Mode 0-6	N/A	N/A	N/A
Data Transfer Rate (max.)	Read-85MB/sec. ; Write-75MB/sec.	Read-160MB/sec. ; Write-140MB/sec.	Read-100MB/sec. ; Write-50MB/sec.	Read-230MB/sec. ; Write-160MB/sec.
Operation Temp.	iFD-2500JC: 0°C~+70°C iFD-2500JW: -40°C~+85°C	iFD-2510IS: 0°C~+70°C iFD-2510WT: -40°C~+85°C	iFD-2510RS: 0°C~+70°C iFD-2510RW: -40°C~+85°C	iFD-2000JC: 0°C~+70°C iFD-2000JW: -40°C~+85°C
Storage Temp.	-55°C~+95°C			
Humidity	10%~95% non-condensing			
Vibration	20G (7~2000Hz)			
Shock	1500G/0.5ms			
DC Input Voltage	5V single power supply operation			
Enclosure Material	Metal Mechanical Cover			
Dimension	69.8x100.1x9.5mm(WxLxH)		69.63x99.88x9.3mm(WxHxL)	
Certificate	RoHS/CE/FCC			

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Industrial Flash Module Series Complete Industrial SLC Solution

The Best Flash Storage Solutions-mini PCIe

Introduction

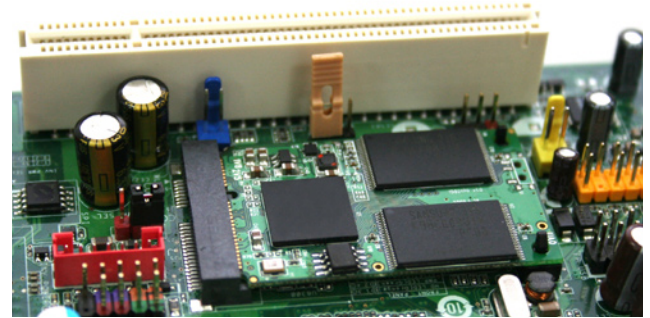
IEI miniDOM provides most stable storage device to boost system performance. It integrates both SATA* and USB interfaces, and is compatible with standard Mini PCI express slot. In terms of capacity, IEI miniDOM provides from 1GB to 32GB within SLC IC, which has the best endurance and reliability. * Host circuit needs to design to support SATA signal.

IPE 5200C/W Pin Definition				IPE 5200C/W Pin Definition			
Signal Name	Pin #	Pin #	Signal Name	Signal Name	Pin #	Pin #	Signal Name
Reserved	25	26	GND	Reserved	51	52	+3.3V
Reserved	23	24	+3.3Vaux	GND	49	50	GND
GND	21	22	Reserved	+A	47	48	+1.5V
Reserved	19	20	Reserved	-A	45	46	Reserved
Reserved	17	18	GND	GND	43	44	Reserved
GND	15	16	Reserved	-B	41	42	Reserved
Reserved	13	14	Reserved	+B	39	40	GND
Reserved	11	12	Reserved	GND	37	38	USB_D+
GND	9	10	Reserved	GND	35	36	USB_D-
Reserved	7	8	Reserved	Reserved	33	34	GND
Reserved	5	6	1.5V	Reserved	31	32	SMB_DATA
Reserved	3	4	GND	GND	29	30	SMB_CLK
Reserved	1	2	3.3V	GND	27	28	+1.5V

IPE 5200C/W Pin Definition (SATA)		
Type	PIN	Description
Reserved		No Connect
+3.3V	2, 52	3.3V Source
GND	4, 9, 15, 18, 21, 26, 27, 29, 34, 35, 37, 40, 43, 49, 50	Return Current Path
+1.5V	6, 28, 48	1.5V Source
+B	39	Host Receiver Differential Signal

IPE 5200C/W Pin Definition (USB)		
Type	PIN	Description
-B	41	Host Receiver Differential Signal
-A	45	Host Transmitter Differential
+A	47	Host Transmitter Differential
USB_D+	38	USB Differential Signal D+
USB_D-	36	USB Differential Signal D+

SATA : Support by project



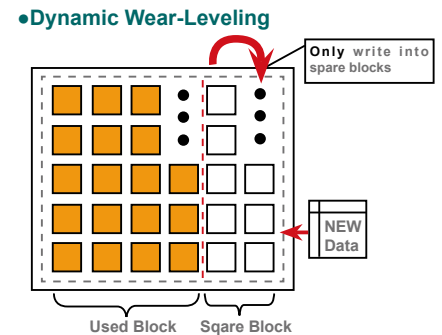
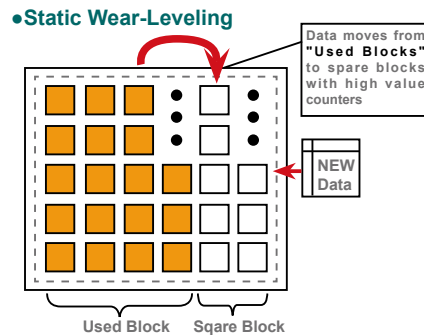
Item **IPE 5200C/IPE 5200W**



Capacities	SLC: 1GB~32GB
Interface	Mini PCIe<SATA II & USB2.0>
Data Transfer Rate	SATA- Read: 100MB/sec. Write: 50MB/sec. (Max.) USB- Read: 30MB/sec. Write: 20MB/sec.(Max.)
Operation Temp.	0°C~+70°C (Standard Grade) -40°C~+85°C(Industrial Grade)
Storage Temp.	-55°C~+95°C
DC Input Voltage	5V Single power supply
Vibration	5G(7~2000Hz)
Shock	50G/10ms
Power Consumption	150mA(Max.)
Dimension	30x50.95x3.4mm (WxLxH) 30x50.95x5.8mm(WxLxH)-64GB
Certificate	CE/FCC/ROHS

Static Wear-Leveling

The Static Wear-Leveling algorithm evenly distributes the data over the entire disk and greatly enables to extend product longevity. The Static Wear-Leveling is calculated to beat least four times the programming endurance of the dynamic wear- leveling.



Industrial Flash Module Series Complete Industrial SLC Solution

The Best Flash Storage Solutions-iCF/iFM/iFP Series

Introduction

iCF 8000/iFM 8000 series are the best-in-class 4-channel embedded solid-state data storage systems, offering high sustained read and write speed up to 80 MB/sec and 75 MB/sec with fully support of PIO 0-4/Multiword DMA 0-2/Ultra DMA 0-6 modes.

- The iCF/iFM 8000 brings the best performance among existing products in the market.
- While in a small form factor, iFM 8000 can achieve the best performance and capacity of 16GB.



Multi-Function Switch

iFM 8000 offers an ideal customization alternative solution. Customers can choose either one of the following functions using the Multi-function Switch:

- IDE Master/Slave select
- Write Protect on/off

Bad Block Management & Error-Correction Code

The Bad Block Management and Error-Correction Code 8bit per 512Byte support ensure the data will be read correctly and thereby improve the data transfer reliability for industrial usage.

Static Wear-Leveling

The innovative “Static Wear-Leveling” technology treats all NAND components as one memory unit and evens the erase count of all blocks. This implement enables iCF/EDC 8000 lifespan to be maximized by enhancing the performance with limited memory.

Enhanced Power Cycling

Power safe protection functions are implemented to prevent data loss or damage during unexpected device power surge, power drop, and power off.

Item	iCF 8000	iFM 8000/ iFM 8800/ iFP 8800	iCF 1000+	iFM 4000+/ iFM4400+/ iFP 2000+
Picture	NEW!! 	NEW!! 		
Capacities	2GB~16GB	2GB~16GB	128MB~16GB	128MB~8GB
Interface	50pin CompactFlash	44pin or 40pin IDE/ATA	50pin CompactFlash	44pin or 40pin IDE/ATA
IDE Transfer Mode	PIO Mode 0-4 MwDMA Mode 0-2 UltraDMA Mode 0-6	PIO Mode 0-4 MwDMA Mode 0-2 UltraDMA Mode 0-6	PIO Mode 0-4 MwDMA Mode 0-2 UltraDMA Mode 0-4	PIO Mode 0-6 MwDMA Mode 0-4 UltraDMA Mode 0-4
Data Transfer Rate	Read: 80MB/sec.(max.) Write: 75MB/sec.(max.)	Read: 80MB/sec.(max.) Write: 75MB/sec.(max.)	128MB~2GB(Single): Read-20MB/sec.(max.) Write-10MB/sec.(max.) 2GB~16GB(Dual): Read-40MB/sec.(max.) Write-20MB/sec.(max.)	128MB~2GB(Single): Read-20MB/sec.(max.) Write-10MB/sec.(max.) 2GB~8GB(Dual): Read-40MB/sec.(max.) Write-20MB/sec.(max.)
Operation Temp.	-0°C~+70°C ; -40°C~+85°C			
Storage Temp.	-55°C~+95°C			
Humidity	10%~95% non-condensing			
Vibration	iCF: 20G(7~2000Hz)/iFM: 15G(7~2000Hz)			
Shock	iCF: 1500G/0.5ms/iFM: 50G/10ms			
DC Input Voltage	+3.3V~+5V single power supply operation			
Power Mode	Auto stand-by and sleep mode			
Power Consumption				150mA
Enclosure Material	CF and plastic frame with metal cover	PC mechanical cover	CF and plastic frame with metal cover	PC mechanical cover
Dimension	42.8x36.4x3.3 mm(WxLxH)	40pin:27.2x57.8x9.1mm(WxLxH) 44pin:27.2x50.2x7.5mm(WxLxH) iFP 44pin:	42.8x36.4x3.3 mm(WxLxH)	iFM 40pin:60.2x6.4x27.8mm(WxLxH) iFM 44pin:50.3x5.8x27.3mm(WxLxH)
Certificate	RoHS/CE/FCC			

1 Industrial Computing Solutions

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7 ORing Network Communication

8 Power Supply/ Peripherals

Industrial DRAM Module Series

The Best DRAM Module Solutions

Complete product line of Industrial DRAM from IEI !

IEI Industrial DRAM Module series offers the complete memory module of DDR/DDR2 and even low profile and wide temp. used to industrial applications to maximize the product efficiency via the best parameter of DRAM Module. IEI promises the use of original IC, long-term supply, life-time grantee and customized setting service to meet every customer's need.

Industrial DDR2 Solution

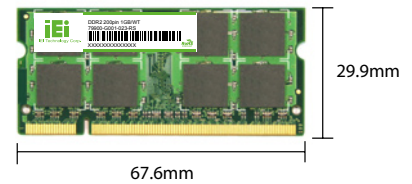
DDR2 667MHz Low Profile 512MB/1GB
DDR2 667MHz SO DIMM 512MB/1GB

Features

- Single 1.8V ± 0.1% power supply
- Utilizes 667 MHz CL5 DRAM components
- Burst Mode Operation
- Data scramble (Sequential & Interleave)
- All inputs are sampled at the positive going edge of the system clock
- Two Clocks System
- Auto & self refresh 7.8ns
- SSTL18 compatible inputs and output
- Serial PD with EEPROM
- 8K refresh cycles / 64ms
- Dimension: Low Profile 133.3 x 18.3 mm(WxH)
 SO DIMM 67.6 x 29.9 mm(WxH)

Module speed	667MHz
Long DIMM Pin	240Pin
SO DIMM Pin	200Pin
DRAM Chip Brand	Promos
CAS Latency	CL5
Operating Temp	-40°C~85°C

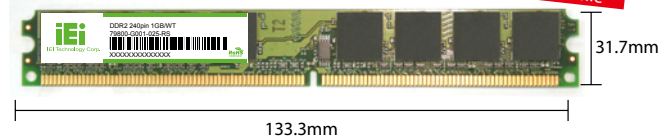
DDR2 200pin 1GB/WT SO-DIMM



DDR2 240pin 512MB/WT Low Profile



DDR2 240pin 1GB/WT Low Profile



Industrial DDR Solution

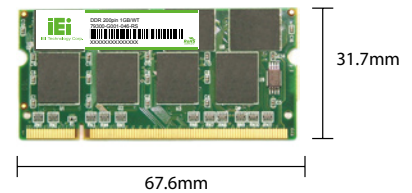
DDR 400MHz Low Profile 512MB
DDR 400MHz Long DIMM 1GB
DDR 400MHz SO DIMM 512MB/1GB

Features

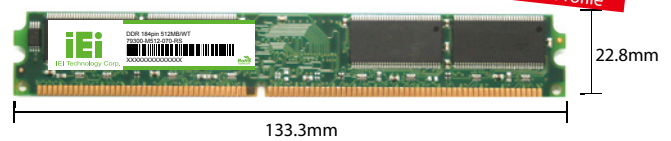
- Single 2.6V ± 0.1% power supply
- Utilizes 400 MHz CL3 DRAM components
- Burst Mode Operation
- Data scramble (Sequential & Interleave)
- All inputs are sampled at the positive going edge of the system clock
- Two Clocks System
- Auto & self refresh 5ns
- SSTL2 compatible inputs and output
- Serial PD with EEPROM
- 8K refresh cycles / 64ms
- Dimension: Low Profile 133.4 x 22.8 mm(WxH)
 Long DIMM 133.3 x 29.9 mm(WxH)
 SO DIMM 67.6 x 31.7 mm(WxH)

Module speed	400MHz
Long DIMM Pin	184Pin
SO DIMM Pin	200Pin
DRAM Chip Brand	Promos
CAS Latency	CL3
Operating Temp	-40°C~85°C

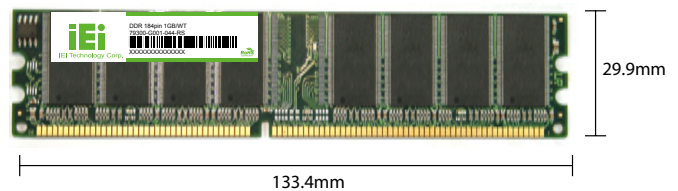
DDR 200pin 1GB/WT SO-DIMM



DDR 184pin 512MB/WT Low Profile



DDR 184pin 1GB/WT Low DIMM



Ordering Information

DDR

Part No.	Item	Pin	Capacity	Speed
79300-M512-070-RS	DDR Low Profile	184pin	512MB	400MHz
79300-G001-044-RS	DDR DIMM	184pin	1GB	400MHz
79300-M512-069-RS	DDR SO-DIMM	200pin	512MB	400MHz
79300-G001-046-RS	DDR SO-DIMM	200pin	1GB	400MHz

DDR2

Part No.	Item	Pin	Capacity	Speed
79800-M512-022-RS	DDR2 Low Profile	240pin	512MB	667MHz
79800-G001-025-RS	DDR2 Low Profile	240pin	1GB	667MHz
79900-M512-015-RS	DDR2 SO-DIMM	200pin	512MB	667MHz
79900-G001-023-RS	DDR2 SO-DIMM	200pin	1GB	667MHz

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