## **Faster and New SATA Flash Storage**

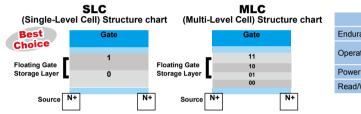
The anti-vibration IEI SLC flash modules featured low power consumption, high performance and perfect reliability are best for SATA SSD and SATA DOM solutions. The SSD not only has much higher performance than the HDD, but also can be operated anytime due to the lack of moving parts such as motor, bearing or rotating head. In addition, the SSD is able to fulfill any specialized application in any harsh environment.

### Complete Industrial SLC Solution



(	SLC Only	<b>T</b>	li 🖾
Interface	IDE PATA	SATA 1.5Gb/s	SATA 3Gb/s
Data Transfer Rate	66/100/133 MB/sec.	SATA 6Gb/s	SATA 6Gb/s 3Gb/s
Reliability	Fair	Better	Better
Power Consumption	Higher	Lower	Lower
Heat Delivery	Fair	Better	Better
Chipset Support after 945G/GM	No	Yes	Yes

#### SLC vs. MLC Comparison Table



	SLC	MLC
Endurance (Erase cycle)	100,000	5,000-10,000
Operating Temp. Range	Support Wide Temp. -40°C~+85°C	0°C~+70°C
Power Consumption	Lower	Higher
Read/Write Performance	Better	Worse

### IEI SATA Flash Module Selection

Item	IFM-3010IS(WS)/IFM-3010IL(WL) IFM-3010IPS(WPS)	IFD-2520IS (WS)	
Picture	<b>N</b>		
Capacity	1GB~32GB	1GB~32GB	
Interface	SATA 6Gb/s	SATA 6Gb/s	
IDE Transfer Mode	PIO Mode 0-4 MwDMA Mode 0-2 UltraDMA Mode 0-2	PIO Mode 0-4 UltraDMA Mode 0-6	
Data Transfer Rate	Read-300MB/sec. ; Write-130MB/sec.	Read-510MB/sec. ; Write-340MB/sec.	
Operating Temp.	-0°C~+70°C ; -40°C~+85°C	iFD-25102S: 0°C~+70°C iFD-2520WT: -40°C~+85°C	
Storage Temp.	-55°C~+95°C	-55°C~+95°C	
Humidity	10%~95%, non-condensing	10%~95%, non-condensing	
Vibration	20G	20G (7~2000Hz)	
Shock	1500G/10 ms	1500G/0.5 ms	
ECC Technology	High reiability based on the internail ECC function	High reiability based on the internail ECC function	
MTBF	>3,000,000 hours	>3,000,000 hours	
R/W Endurance	2,000,000 times	2,000,000 times	
Wear-Leveing	Support	Support	
DC Input Voltage	+5V single power supply operation	+5V single power supply operation	
Power Mode	Auto stand-by	and sleep mode	
Power Consumption	200 mA		
Enclosure Material	PC mechanical cover	Metal mechanical cover	
Dimensions (WxLxH)	20.5 x 39.2 x 8 mm	69.8 x 100.1 x 9.3 mm	
Certificate	RoHS / CE / FCC		

#### Ordering Information • Industrial SATA Flash Card

Part No.	Interface	Capacit
IFM-3010IS-XXXX	Vertical SATA 6Gb/s 7 pin	1G~32G
IFM-3010WS-XXXX	Vertical SATA 6Gb/s 7 pin	1G~32G
IFM-3010IL-XXX	Vertical SATA 6Gb/s 7 pin	1G~32G
IFM-3010WL-XXXX	Vertical SATA 6Gb/s 7 pin	1G~32G
IFM-3010IPS-XXXX	Horizontal SATA 6Gb/s 7 pin	1G~32G
IFM-3010WPS-XXXX	Horizontal SATA 6Gb/s 7 pin	1G~32G

#### Industrial SATA 2.5" Flash Disk

Part No.	Interface	Capacity
IFD-2520IS-XXXX	SATA 6Gb/s 7+15 pin	8GB~128GB
IFD-2520WS-XXXX	SATA 6Gb/s 7+15 pin	8GB~64GB

XXXXX=Capacity-128MB/256MB/512MB/1GB/2GB/4GB/8GB/ 16GB/32GB/64GB/128GB I= Standard grade opertion temp.: 0°C~70°C W=Industrial grade opertion temp.: -40°C~85°C



# **Intelligent DC UPS Module**

#### 12V/9~36V DC Input, 12V DC Output Uninterruptible Power Supply Module with Diagnostics

- VESA 75 or VESA 100 mounting
- 9-36V input through terminal or power jack, or 12V through power jack only
- Battery status and charge monitoring utility. Remote network management capabilities



#### Features

- 60W (5A @ 12V) or 100W (8.3A @ 12V) output
- 28Wh or 56Wh, for more than 140 minutes operation time (depending on panel PC power requirements)
- Rugged metal enclosure for standard VESA 75/100 mounting
- · Web-based, remote network management, no software installation required
- · Local PC-based monitoring software for input detection and battery status monitoring
- Auto shut down when battery low
- · Remote DC output on/off switch for external switch installation
- Provides stable power to the PC during line sags and spikes and absorbs power surges and transients, protecting expensive equipment





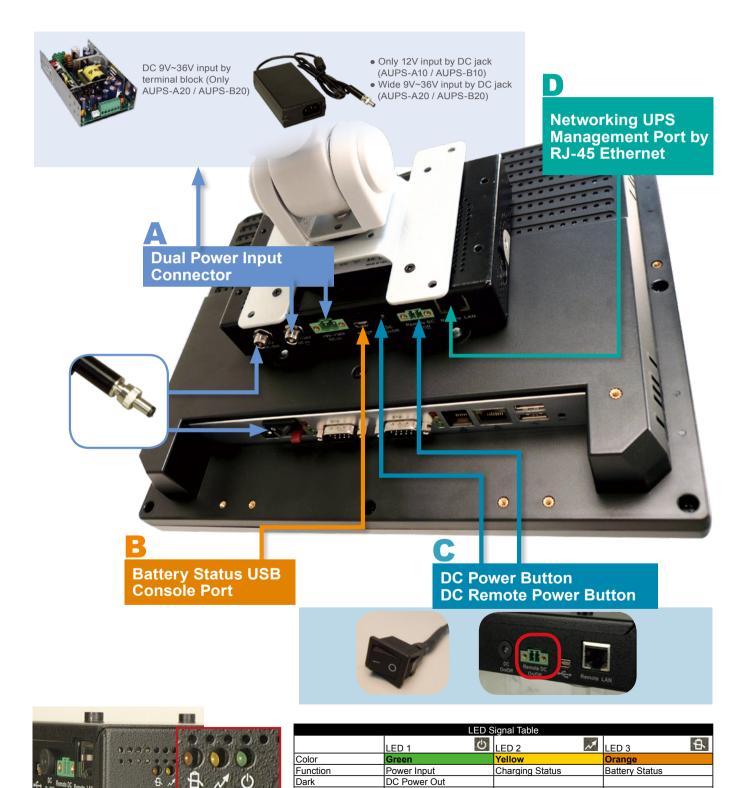
Model Name	AUPS-A10 / AUPS-A20	AUPS-B10 / AUPS-B20
	AUPS-A10 (12V)	AUPS-B10 (12V)
Input Power	AUPS-A20 (9~36V)	AUPS-B20 (9~36V)
Dimensions (mm)	150 x 95 x 34	170 x 150 x 34
Battery Capacity	28 Wh (Watt/Hour)	56 Wh (Watt/Hour)
Output Power	60W (5A@12V)	100W (8.3A@12V)
VESA Support (mm)	75 x 75	75 x 75 / 100 x 100

## **Intelligent UPS Module**

#### High Energy Density / Lightweight / Compact DC to DC UPS & Power Module

Protect your panel PC from electrical damage and greatly reduce the risk of losing data.

The UPS module serves as temporary power during a short break in power and allows a safe system shutdown for longer periods of power loss.



DC Power Out DC Power In

Discharging

Charging

Battery Full

Battery Low

Dark

Light

Blinking

R

A

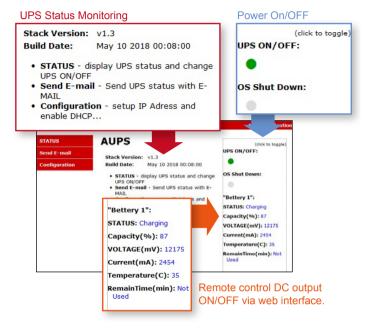
## **AUPS Network Administration Tool**

#### Intelligent Software Utility

The remote management software utility and application program allow users to easily get the status of the AUPS and to control the AUPS power functions from anywhere with internet connection.



#### Network Remote Management Software Battery Capacity Status



## **AUPS Local USB Utility Tool**

#### Monitor the Most Critical Battery Functions on the Local Machine

The battery monitoring utility provides AUPS status monitoring and configuration ability. Uninterruptible Power Systems is a significant product that serves as emergency power when you suffer from electric event.



#### MONITORING SYSTEM STATUS

Shows system status real-time monitoring

- DC Power indicator
- Battery capacity
- Battery status
- Temperature



SETTING Setting system management

#### BATTERY STATUS

Shows battery status real-time monitoring

- Real-time information update
- Status bar

#### LAN CONFIGURATION

LAN shows system IP Address information

#### E-MAIL

The E-mail page is where to set the SMTP settings for sending alert notification via e-mail

Buzzer	Enable or disable the buzzer that warns when the system is switching to use battery power.
Enable LAN	Enable or disable the LAN for remote monitoring function.
Power	Click the button to power off the AUPS power module immediately.
Auto DC on	Enable to automatically power on the AUPS once DC power is applied.
Shut down condition (capacity %)	Set the battery capacity parameter for the system to shut down automatically.
DC off delay time (0~65536 sec)	Set the delay time for the AUPS series to power off after the system shut down.
System will be down-converted (capacity %)	Set the battery capacity parameter for the system to automatically switch to the Balanced power plan set in its Windows OS.
System go to sleep mode (capacity %)	Set the battery capacity parameter for the system to go into sleep mode automatically.

### **AUPS Module Specifications**

Model Name		AUPS-A10	AUPS-A20	AUPS-B10	AUPS-B20	
	VESA Type	VESA 75	VESA 75	VESA 75 and 100	VESA 75 and 100	
Input voltage Uinated/range		DC +12V	DC +9V~+36V	DC +12V	DC +9V~+36V	
	Input current rated	1. Adapter is 12V-6A (Load is 60W) 2. Battery is 6V-12A (Load is 60W)		1. Adapter is 12V-9A (Load is 100W) 2. Battery is 12V-9A (Load is 100W)		
In much Diata	Standby power consumption		0.3A (0.2A if Netwo	rk Management disabled	)	
Input Data	Operation with charging current	500mA				
	Operation with charging power consumption	6	W		10W	
	Charging time with system ON/OFF		8hrs / 2hrs	(Battery empty)		
	Output voltage for normal operation		DC +	-12V +/-5%		
	Output voltage for battery operation (approx).	6~8.4V DC6 V (exhaust	ive discharge protection)	12~16.8V DC12 V (ext	naustive discharge protection)	
Output Data	Output current	0A <sup>,</sup>	~5A	0A~8.3A		
	Efficiency (nominal operation) / power loss at Vin=12V, lout=80% of full loading	89%	93%	95%	94%	
	Short-circuit protection	Yes				
Protection	Exhaustive discharge protection	<ol> <li>Battery low is 10% of battery capacity</li> <li>Shuntdown 5% of battery capacity (Default)</li> <li>The end of battery discharge voltage is 6V</li> </ol>				
	EMC / Safety certification		C	E, FCC		
	Ethernet interface	Web-bas	sed, specification 10/100M	Ibps with RJ-45 connection	on, Cat. 5 cable	
Monitoring	USB interface	PC-capable, specification 2.0 with full speed, i.e. 2 Mbit/s. Standard 4-core shielded cable, US "mini B" connector to DC-UPS		re shielded cable, USB Series		
Dhusiaal	Dimensions (LxWxH)	152mm x 96	152mm x 96mm x 28mm		174mm x 147mm x 35mm	
Physical	Weight	1.2	kg	1.8 kg		
	Green	DC power input				
LED Indica- tor	Yellow	Battery charging				
	Orange		Bettery	y discharging		
Environment	Operating Tem.	0°C~40°C				
Environment Storage Tem.		-20°C~50°C				

Note1: Connecting DC input constantly is recommended. Battery will be drained after 14 hours. Note2: System power consumption + AUPS charging power consumption = Total watts of power source

#### **Battery Module Specifications**

Model Name	AUPS-A10	AUPS-A20	AUPS-B10	AUPS-B20	
Battery Model Name	31603-000072-RS		31603-0	31603-000073-RS	
Battery type	Li-lon 2S	2P 7.26V	Li-lon 4S	Li-Ion 4S2P 14.52V	
Battery capacity	7.26V 52	200 mAH	14.52V, 5	5200 mAH	
Maximum charge voltage	8.4	4V	16	5.8V	
The end of discharging voltage	5.5	5V	1	1V	
Recommended charging current (max.)	2.5	5A	2.	55A	
System continuous discharging current (max.)	7.	5A	7.5A		
The end of charge condition	255mA / 1Min		255m/	255mA / 1Min	
Discharge protection	Over current protection				
Charge protection	Over current protection				
Ambient temperature	0°C~45°C				
Storage temperatur	-20°C~65°C				
Self-discharge rate		340uA	~440uA		
Dimensions (LxWxH)	139mm x 47	mm x 26mm	165mm x 70	6mm x 26mm	
Weight	24	4g	40	66g	
Cycle life	300 charge / discharge cycles				
Backup 60W / 10Min 100W / 10Min	50W /	10Min	100W	/ 10Min	
Safety class	CE, FCC, UN38.3, UL				

Note: Replacing battery module every 2 years is recommended.





### Selection Table for UPS Modules and Main Buffering Time

31603-000072-RS

31603-000073-RS

			01000 000012	
AFOLUX PPC	AUPS-A10	AUPS-A20	AUPS-B10	AUPS-B20
		Under 50W solution	·,	
AFL3-W07A-BT (20W)	110min	110min	220min	220min
AFL3-08A-BT (30W)	75min	75min	150min	150min
AFL3-W10A-BT (33W)	70min	70min	140min	140min
AFL3-12A-BT (42W)	55min	55min	110min	110min
AFL3-W15A-BT (50W)	45min	45min	90min	90min
AFL3-W19A-AL (40W)	55min	55min	110min	110min
	^	50W ~ 100W solution		
AFL3-12C-ULT3 (58W)	-	-	75min	75min
AFL3-W15B-H81 (72W)	-	-	60min	60min
AFL3-W15C-ULT3 (68W)	-	-	65min	65min
AFL3-W19C-ULT3 (63W)	-	-	70min	70min
AFL3-W22C-ULT3 (65W)	-	-	70min	70min

### Ordering Information

Part No.	Description
AUPS-A10-R20	VESA 75, DC 12V input 60W UPS module with 7.26V; 5200mAH, 2S2P Li-Ion battery, R20
AUPS-A20-R20	VESA 75, DC 9V ~ 36V input 60W UPS module with 7.26V; 5200mAH, 2S2P Li-Ion battery, R20
BATKIT-2S2P5200-R10	Battery installation kit with 2S2P 7.26V 5200mAH Smart Battery pack and accessories
31603-000072-RS	Battery Pack; Li Ion; WELL DONE/WTE; EXIC011K1002; SAMSUNG; ICR18650-26J; 5200mAH; 7.26V; 2S2P; 244±10g;BAT-LI-2S2P5200; CCL; RoHS
AUPS-B10-R20	VESA 100, DC 12V input 100W UPS module with 14.52V; 5200mAH, 4S2P Li-Ion battery, R20
AUPS-B20-R20	VESA 100, DC 9V ~ 36V input 100W UPS module with 14.52V; 5200mAH, 4S2P Li-Ion battery, R20
BATKIT-4S2P5200-R10	Battery installation kit with 4S2P 14.52V 5200mAH Smart Battery pack and accessories
31603-000073-RS	Battery Pack; Li Ion; WELL DONE/WTE; EXIC021K1002; SAMSUNG; ICR18650-26J; 5200mAH; 14.52V; 4S2P; 466±10g; BAT-LI-4S2P5200; CCL; RoHS

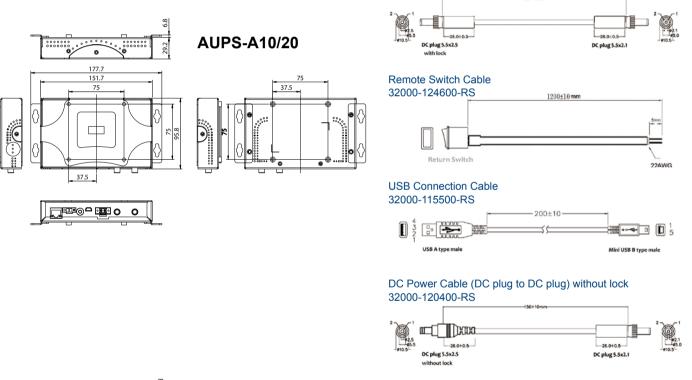
Note: The backup time could be varied on different models or operating temperature.

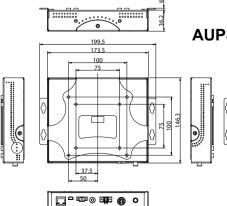
#### Packing List



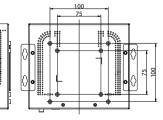
#### AUPS Mechanical Drawing (Unit: mm)







AUPS-B10/20



DC Power Cable (DC plug to mini DIN) 32002-002201-100-RS



## IDD-930160-KIT

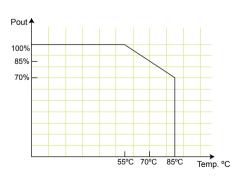
60 W DC/DC Converter Module for AFOLUX Panel PC and Monitor



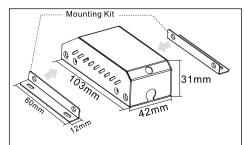
#### Specifications

#### **Typical Applications**

- Input voltage: 9-30 VDC
- Input current: Max. 8.2 A at 9 VDC
- Output: 12 V@5 A
- Max. total output: 60W
- Performance characteristics: Noise and ripple: <120 mV Line regulation: <2.5% Load regulation: <2.5%
- Transient toggle rate: 250 Hz (50% duty ratio)
- Transient current step:
- From 0% to 50% and 50% to 100% of max current
- Efficiency: typ. 95% (Vin=12 V, 80% of full load)
- Dimensions: 42 mm x 103 mm x 31 mm
- Mounting kit: 12 mm x 80 mm
- Cable length: 180 cm
- Operating temperature: -10°C~55°C
- Load down protection



#### **Dimensions** (Millimeters)





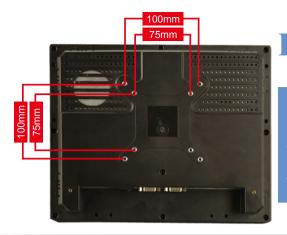
Connects to car cigarette lighter

### **Packing Information**

1 x IDD-930160-KIT-R20
1 x Mounting kit
1 x Screw kit
1 x Anti-slip strip
1 x Utility CD

### **Ordering Information**

Part No.	Description
IDD-930160-KIT-R20	60 W DC/DC 9-30 VDC input vehicle power adapter



## **IEI Quick Mounting Technology**

#### Compliant with VESA Mounting Standards

IEI panel solutions have four mounting holes compliant with the VESA (Video Electronics Standards Association) mounting standard (75mm x 75mm/100mm x 100mm) on the rear panel for stand mounting and other mounting methods.

## 1. Stand Mounting

### VESA 75/100 Universal Stand









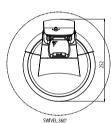


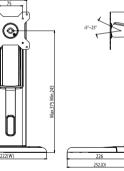


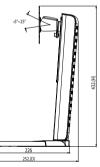
Height Adjustment (13 cm)



Forward/Backward Tilt (+25°/-5°)







#### **Ordering Information**

Part No.	Description
STAND-A21-R10	15"~21" VESA 75x75 mm/100x100 mm PPC/Monitor Stand, support from 6 KG to ~12 KG, Black, RoHS





#### **Ordering Information**

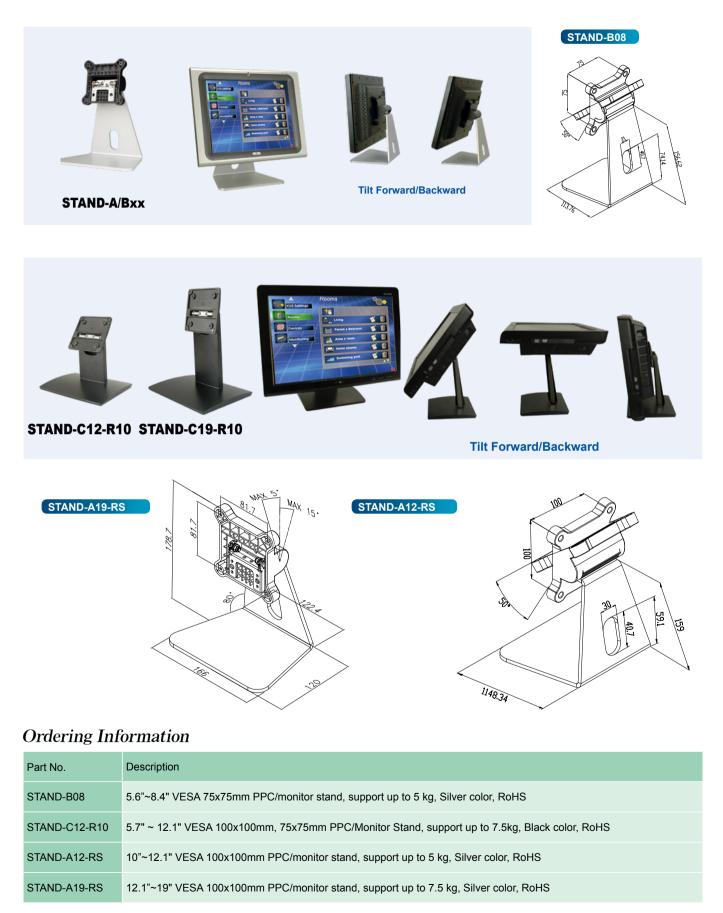
Part No.	Description
STAND-100-RS	<ul> <li>Material: Heavy-duty steel</li> <li>Adjustable display angle</li> <li>3kg to 8kg loading capacity</li> <li>Color: White (Pantone 413C)</li> </ul>

#### **Ordering Information**

Part No.	Description
STAND-210-R11	<ul> <li>Support VESA 75/100 standard</li> <li>Weight capacity from 7kg~10kg</li> </ul>

STAND-210

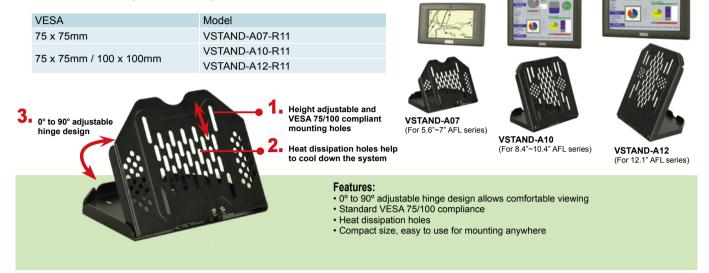
#### VESA 75/100 Easy Stand



### 2. V-STAND

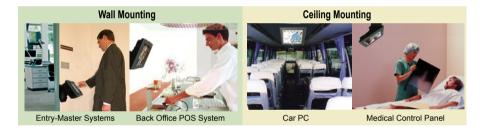
#### VESA Multi-Mounting Stand

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 environments, such as kitchen, room or shelf.



#### A. One fits all solution

The V-Stand is a compact and tilt adjustable mounting stand providing mobility and ergonomic comfort to fit common wall mounting and ceiling mounting situations.



#### **B**. 0° to 90° excellent adjustability

You can change the angle of the stand from 0° to 90° to reach almost any point with ergonomic features for comfortable viewing.



POS System

Self-ordering System

**C**. Space saving and easy installation

Compact size provides mobility





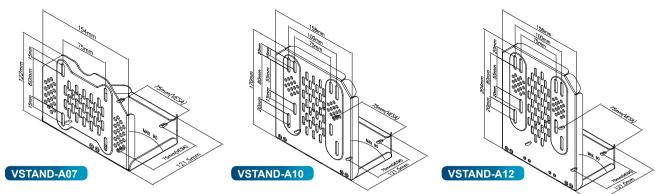
1: Tighten the screws in the rear of the AFOLUX PPC VESA mounting holes



2: Select the position to mount stand kit



3: Plug in the system to operate



#### **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

## **3. ARM**

#### VESA 75/100 Desk ARM

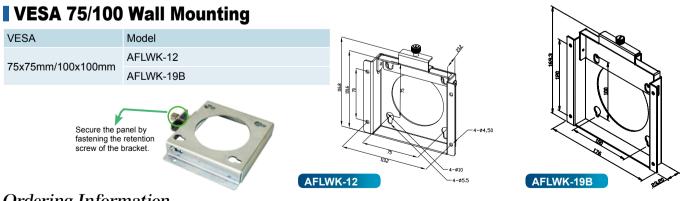
	VESA	Model
75x75mm/100x1	75v75mm/100v100mm	ARM-11-RS
		ARM-31-RS



#### **Ordering Information**

Part No.	Description
ARM-11-RS	LCD Monitor / PPC ARM, VESA 75/100, 3kg~6kg, RoHS
ARM-31-RS	LCD Monitor / PPC ARM, VESA 75/100, 7kg~14kg, RoHS

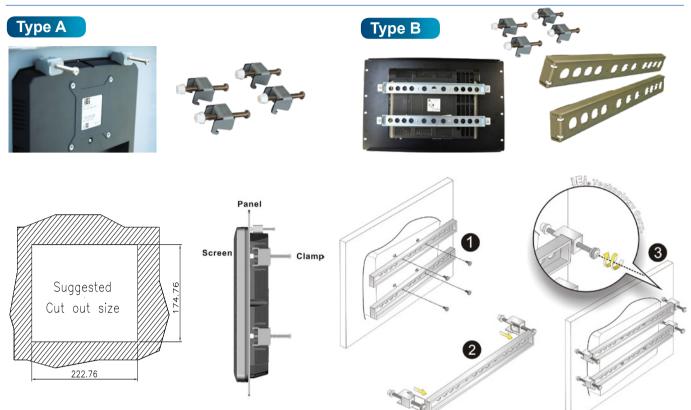
## 4. Wall Mounting



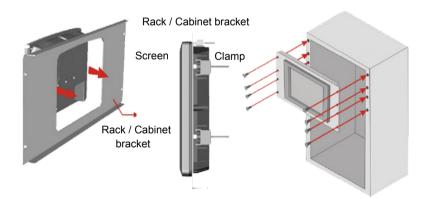
#### **Ordering Information**

Part No.	Description
AFLWK-12	5.6"~12" VESA 75x75mm PPC/Monitor Wall Mount Kit with Retention Screw, Silver color, RoHS
AFLWK-19B	15"~19" VESA 100x100mm PPC/Monitor Wall Mount Kit with Retention Screw, Silver color, RoHS

### 5. Panel Mounting \*Please refer to product datasheet for mounting way suggestion



### 6. Rack Mounting



#### **Ordering Information**

Part No.	Description
AFLRK-xx	For AFOLUX PPC/Monitor Series

## 7. Din Mounting

