

# Industrial Class Power Supplies

## Industrial Mini-Redundant AC Power Supply







Model Name	Power (typical)	Maximum DC Output Current						AC Voltage Input Range	Certifications
		+5 V	+3.3 V	+12 V	-12 V	-5 V	+5 Vsb		
APS-946XAR	460 W	25 A	25 A	30 A	0.8 A	--	2 A	Universal	UL/cUL/TUV/CCC
APS-940XAR-EPS12 (for RK-440)	400 W	35 A	25 A	28 A	1.2 A	0.5 A	2 A	Universal	UL/cUL/TUV/CCC

■ Dimensions: 195 x 150 x 86 (mm)

## Industrial AC Power Supply PS2 Form Factor



Model Name	Power (typical)	Maximum DC Output Current							AC Voltage Input Range	Certifications
		+5 V	+3.3 V	+12 V1	+12 V2	-12 V	-5 V	+5 Vsb		
APS930XA-ATX12 	300 W	16 A	19 A	17 A	17 A	0.5 A	0.3 A	3 A	Universal	UL/cUL/TUV/CCC
APS-946XA-EPS12 	460W	20 A	24 A	16 A	16 A	0.5 A	0.3 A	3 A	Universal	UL/cUL/TUV/CCC
APS-960XA-EPS12 	600W	25A	25A	45A	--	0.8A	--	3.5A	Universal	UL/cUL/TUV/CCC
APS-946XA-EPS12 (for RK-440)	460W	40 A	30 A	32 A	--	1 A	0.8 A	2 A	Universal	UL/cUL/TUV/CCC
APS-960XA-EPS12 (for RK-440) 	600W	25A	25A	45A	--	0.8A	--	3.5A	Universal	UL/cUL/TUV/CCC

■ Dimensions: Standard PS2 form factor, 140 x 150 x 86 (mm)

## Industrial DC-DC Power Supply PS2 Form Factor




Model Name	Power (typical)	Maximum DC Output Current						DC Voltage Input Range	Certifications
		+5 V	+3.3	+12 V	-12 V	-5 V	+5 Vsb		
APS-930/48X	300 W	35 A	30 A	18 A	1 A	0.5 A	1.5 A	40 ~ 72 VDC (48 VDC nominal)	UL/cUL/TUV
APS-930/24X	300 W	30 A	15 A	15 A	2 A	2 A	1.2 A	19 ~ 32 VDC (24 VDC nominal)	UL/CSA/TUV

■ Dimensions: 150 x 140 x 86 (mm)

## Industrial AC Power Supply 1U/2U Form Factor




Model Name	Power (typical)	Maximum DC Output Current						AC Voltage Input Range	Certifications	
		+5 V	+3.3 V	+12 V1	+12 V2	-12 V	-5 V			+5 Vsb
APS-9130XU 	300 W	16 A	14 A	16 A	16 A	0.5 A	0.3 A	3 A	Universal	UL/cUL/TUV/CCC
APS-9235XU	350 W	25 A	20 A	28 A	--	0.5 A	0.5 A	2 A	Universal	UL/cUL/TUV/CCC

■ Dimensions: APS-9130XU: 190 x 100 x 40.5 (mm)  
APS-9235XU: 215 x 100 x 70 (mm)

## Industrial Flex ATX AC Power Supply for Mini-ITX Chassis



Model Name	Power (typical)	Maximum DC Output Current						AC Voltage Input Range	Certifications
		+5	+3.3 V	+12 V	-12 V	-5 V	+5 Vsb		
APS-925XU 	250 W	14 A	12 A	18 A	0.3 A	--	2.5 A	Universal	UL/cUL/TUV/CCC

■ Dimension: 150 x 81.5 x 40.6 (mm)

# Motion Controllers & Frame Grabbers

## PCI-8254/PCI-8258

### DSP-based 4/8-axis Advanced Motion Controllers

- Servo update rate up to 20 KHz through hardware-based PID-FF control loop and second-order filters
- 4/8 axes hybrid motion command output signals of both  $\pm 10$  volts analog command and pulse-train command
- Any 2-6 axes linear interpolation
- Any 3 axes circular interpolation
- MotionCreatorPro 2™ suite of card installation, axis control, auto-tuning, frequency response analysis, and system diagnostic usage

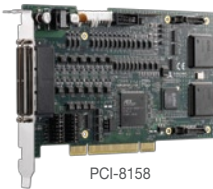


PCI-8258

## PCI-8158/PCI-8154

### Advanced 8/4-axis Servo & Stepper Motion Controllers with Modular Design

- Hardware-controlled position compare and trigger (with DB-8150, up to 1 MHz)
- One HSL network support (with DB-8151)
- 2 to 4 axes linear interpolation, and 2 axes circular interpolation
- Hardware emergency input

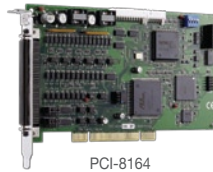


PCI-8158

## PCI-8164

### Advanced 4-axis Servo & Stepper Motion Controller with High-Speed Triggering

- Pulse output rates up to 6.55 MHz
- 2 to 4 axes linear/circular interpolation
- Hardware position compare and trigger with auto-loading
- High-speed position latch function



PCI-8164

## PCI-7856, MNET-4XMO-C

### Distributed Motion and I/O Solutions

- Connect I/O points up to 2,016 points
- Connect motion axis up to 256 axes
- Support for single-axis controllers, including Mitsubishi J3A, Panasonic MINAS A4, Yaskawa Sigma II/III/V, Delta A2, and Sanyo R series
- Support for four-axis controllers

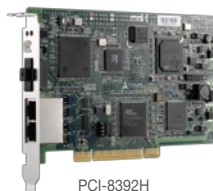


MNET-4XMO-C

## PCI-8392/PCI-8392H

### DSP-based 16-axis SSCNET III Motion Controllers

- Connect I/O points up to 2,016 points
- Servo Interface: SSCNET III protocol
- Controllable axes up to 16 axes
- On-line servo tuning and full servo parameter management
- Excellent performance in axis synchronous control



PCI-8392H

## FIW64/FIW62

### 4-CH / 2-CH PCI Express® IEEE 1394b Frame Grabbers

- Industrial screw lock connector
- Channel status LEDs
- Power supplied to the IEEE 1394b connectors
- PCI Express® x4 compliant (FIW64 only)

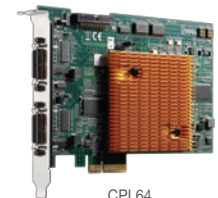


FIW64

## CPL64

### 2-CH PCI Express® PoCL Frame Grabber

- PCI Express® x4 compliant
- Support for 2-CH Camera Link® Base configuration
- Acquisition pixel clock rates up to 85 MHz
- PoCL (Power over Camera Link®) safe power compliant with auto detection



CPL64

## GIE64+/GIE62+

### 4-CH / 2-CH Power over Ethernet Frame Grabbers

- PCI Express® x4 compliant
- Support for 4/2 independent Gigabit Ethernet ports
- Support for IEEE 1588, PTP technology (GIE64+ only)
- Support for IEEE 802.3af for PoE (Power over Ethernet)

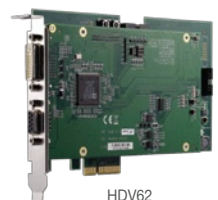


GIE64+

## HDV62 / HDV62A

### HDMI Video/Audio Capture Cards

- Uncompressed 1920 x 1080p, 60 fps video streams
- Support for both digital and component analog video inputs
- Support for HDMI, S/PDIF audio input (HDV62A only)
- Hardware color space conversion
- Support for DirectShow

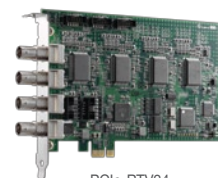


HDV62

## PCIe-RTV24 / PCI-RTV24

### 4-CH PCI Express® / PCI Real-time Video Capture Cards for Standard Cameras

- PCI Express® x1 compliant (PCIe-RTV24), up to 120 fps
- Four color video digitizers operating in parallel
- Color (PAL / NTSC), monochrome (CCIR / EIA) camera supported
- On-board TTL I/O lines



PCIe-RTV24

# Accessories



## LGA775

PN
Thermal Dispatch Performance
FAN
Heatsink Materials
Heatsink Dimensions
Dimensions
Weight
Minimum Chassis Height
Recommended Chassis
Supported Boards



<b>32-20065-0010</b>
- Core 2 Duo E8400 - Up to 3.0 GHz - 45nm, 65Watt, 6MB L2 Cache
10.48 CFM 5,500+- 10% R.P.M
Cooper
92L x87.6W x7.7H(mm)
92L x87.6W x28H(mm)
465g
1U
RK-110S, RK-110SE
E315/E320/935A/A301



<b>32-20134-0000</b>
- Core 2 Duo Q9400 - Up to 2.66 GHz - 45nm, 95Watt, 6MB L2 Cache
9cm/ 78.74 CFM 6,100 +- 10% R.P.M
Aluminum + Cooper
ø107.7*25H(mm)
ø107.7*50.2H(mm)
360g
2U
RK-210S, RK-210E, RK-260, RK-260MB, RK-440, RK-460MB, RK-610MB, RK-608MB
E315/E320/935A/A301/ M322/M302/M1960



<b>32-20086-0000</b>
- Core 2 Duo Q9400 - Up to 2.66 GHz - 45nm, 95Watt, 6MB L2 Cache
9cm/ 16.57CFM 4,500 +-10% R.P.M
Aluminum + Cooper
90 x104 x 28
90 x104 x53
536g
3U
RK-440, RK-460MB, RK-610MB, RK-608MB
M322/M302



## LGA 1156

PN
Thermal Dispatch Performance
FAN
Heatsink Materials
Heatsink Dimensions
Dimensions
Weight
Minimum Chassis Height
Recommended Chassis
Supported Boards



<b>32-20131-0000</b>
- Core i5-660 - Up to 3.33GHz - 32nm, 73Watt, 4MB Cache
75mm( blower)/11.83 CFM 5,500+/- 10% R.P.M
Copper
84Lx 84W x13H (mm)
84Lx 84W x28H (mm)
382g
1U
RK-110S, RK-110SE
E340/E330/A331



<b>32-20113-2000</b>
- Core i7-2600 - Up to 3.4GHz - 32nm, 95Watt, 8MB Cache
95mm/ 78.74 CFM 6,100+/- 10% R.P.M
Aluminum + Cooper
ø 95*24.8H(mm)
ø 95*50.2H(mm)
295g
2U
RK-210S, RK-210E, RK-260, RK-260MB, RK-440, RK-460MB, RK-610MB, RK-608MB
E340/E330/A331/M342



<b>32-20113-0000</b>
- Core i7-2600 - Up to 3.4GHz - 32nm, 95Watt, 8MB Cache
95mm/ 42.73 CFM 4,200+/- 10% R.P.M
Aluminum + Cooper
ø 90*39.3H(mm)
ø 90*67.7H(mm)
--
3U
RK-440, RK-460MB, RK-610MB, RK-608MB
M342



## PGA988

PN
Thermal Dispatch Performance
FAN
Heatsink Materials
Heatsink Dimensions
Dimensions
Weight
Minimum Chassis Height
Recommended Chassis
Supported Boards



<b>32-20072-0000</b>
- Core 2 Duo T7500 - Up to 2.2 GHz - 65nm, 35Watt, 4MB L2 Cache
4cm/ 5,500+/- 10% RPM
Cooper
50Lx 50W x11.8H (mm)
50Lx 50W x21.8H (mm)
117g
1U
Backplane and Mini-ITX
NuPRO-730/M1965



<b>32-20148-0000</b>
- Core i7-2710QE - Up to 2.1GHz - 32nm, 45Watt, 6MB Cache
5cm / 13.3CFM 6,100 +/- 10% RPM
Copper
60L x 50W x 13H ( mm)
60L x 60W x 26.5H ( mm)
225g
2U
Mini-ITX
MI-220



## LGA2011

<b>TBD</b>
- Xeon E5-2600 - up to 2.1GHz - 20MB, 95W, 32nm
6cm/ 50.40 CFM 9,000+/- 10% RPM
Copper
63.9 x 89.7 x64 ( mm)
89.2 x 89.7 x64 ( mm)
396g
4U
TRL-40
IMB-S90

## HDD Adapter Brackets

### Ordering Information

- Two 2.5" HDD in one 3.5" bay: 91-95056-0010
- One 3.5" HDD in one 5.25" bay: 34-30264-1000



## 4U Rear I/O Panel Kit

### Ordering Information

- ATX rear I/O panel for RK-410/615: 58-80013-0000
- ATX rear I/O panel for RK-610A: 34-90063-0000
- 15-slot rear I/O panel for RK-610A: 34-90064-0000



## 2U-E1S1 Riser Card

- 2U 90-degree Riser Card, PCIe x16 + 1 PCI slots
- Designed for RK-260MB-D

### Ordering Information

- 92-94057-0020



## COM Cable

- COM cable with bracket

### Ordering Information

- 1 port (L=230mm): 30-25004-0000
- 2 port (2.54mm pitch, L=230mm): 30-25003-0020
- 2 port (2.00mm pitch, L=230mm): 30-25003-1000
- 2 port (for M-302, M-322, L=450mm): 30-25003-4000
- 6 port (for NuPRO-E340/E330/A331)



## USB 2.0 Cable

- 2/4-port USB 2.0 cable with bracket

### Ordering Information

- 2-port (L=400mm): 30-25010-1000
- 4-port (L=600mm): 30-25009-2000



## KB/MS Cable

- KB/MS cable with bracket (NuPRO-E340/A331/965/935, L=250mm)

### Ordering Information

- 2x Mini-DIN PS/2 KB/MS cable with bracket: 30-01019-2010
- 1x USB + 1x Mini-DIN PS/2 KB/MS "combo" cable with bracket: 30-25027-0000



## DVI Cable

- DVI-D cable with bracket for onboard connector (NuPRO-E340/A331, L=220mm)

### Ordering Information

- 30-01052-2000



## 2.5" HDD Mobile Rack Kit

- 2x 2.5" HDD in a 3.5" drive bay (tray-less)
- SATA interface
- Black

### Ordering Information

- 29-033MA-0000



## 3.5" HDD Mobile Rack Kit

- 3x 3.5" HDD in two 5.25" drive bay
- SATA interface
- Black

### Ordering Information

- 29-033B0-0060



# Graphics & Audio Cards

## mPCIe-8770

### PCIe 2D VGA Display Card

- PCIe VGA Controller XGI™ Volari™ Z11
- PCI Express Spec. compliant
- High Performance 2D Accelerator
- Supports 230 MHz pixel clock
- Supports 4:3 resolution up to 1600x1200, 256/32K/64K/16M colors (70Hz NI)
- Driver support: Windows® 2000, XP, Vista 32/64-bit, 7 32/64-bit; Fedora™ 10, RHEL™ 5



## DB-UVGA16

### USB Graphics Adapter, internal mount, DB-15 connector

- Mounts in DB9 cutout on chassis or in PCI slot
- Uses internal USB pin header
- Display resolutions up to: 1600 x 1200 (4:3), 1680 x 1050 (16:10)
- Supports multiple display modes: Primary, Extended, Mirror (up to 6 additional monitors)



## DB-Audio2

### High Definition Audio Daughter Board with Line-in, Line-out and Mic-in

- Realtek ALC262 High Definition Audio codec
- Three jacks: line-in, line-out and mic-in
- 5x2 pin header for cable connection to external audio header on SBC
- 4-pin header interface for CD audio output

