

# **KCH-901**

## **19" Industrial Rack- Mount Chassis**



### **Introduction**

The new KCH-901 is the new improved version of 4U chassis designed for industrial applications. This rugged, all-steel chassis meets the EIA RS-310C 19" rackmount standard. The KCH-901 allows installation of multiple PC systems in a single chassis that includes not only a serial 14-slots passive backplane but also a more efficient switching power supply in a single fan-cooled chassis. The KCH-901 will withstand shock, vibration, dust, and a wide range of operating temperatures in harsh industrial environments. The chassis is positively pressurized by one filtered push-pull cooling fans to exclude dust and dirt. A lockable door protects drives and switched from tampering and foreign particles.

### **Features**

- 19-inch rack mountable chassis, which meets the EIA RS-310C standard
- Rugged, steel chassis suitable for industrial environments
- Backplane with choice of passive 14-slot ISA, 14-slot PICMG, and active 14-slot PICMG
- Standard 250-watt AC AT/ATX power supply, optional redundant – with (2) 250-watt AC AT/ATX hot swappable, 300-watt AC AT/ATX power supply, 400-watt AC AT power supply, 300-watt DC48V
- Easily maintainable disk drive bays that allow mounting of three half-height 5.25" and one half-height 3.5" disk drives accessible from the front door, One internal half-height 3.5" disk drives
- Lockable door for protecting disk drives against dust
- Adjustable hold-down card clamp to protect add-on cards against vibration.

- One keyboard connector behind the front panel and another keyboard connector at the rear panel
- Reserved 25-pin connectors at the rear panel of the chassis
- Power-on switch with indicator and independent reset switch behind the lockable door
- Hard disk LED indicator
- One 85 CFM cooling fans which dissipate heat in the chassis
- Replaceable and easy-to clean fan filter

## Specification

<b>Physical Dimension (W× D× H)</b>	<b>19 in× 17.7 in× 7 in (483mm× 450mm× 177 mm)</b>
<b>Weight</b>	<b>28.16 ibs (12.8kg)</b>
<b>Construction</b>	<b>Heavy-duty steel</b>
<b>Cooling Fan</b>	<p><b>*Dimensions:</b> 120mm× 120mm× 25mm ;80mmX80mmX25mm(option)</p> <p><b>*85 CFM</b></p> <p><b>*With Dust Filter</b></p>
<b>Disk Drive Bay</b>	<p><b>*Shock-resistant, protecting disk drives against vibration</b></p> <p><b>*Capable of housing up to three half-height 5.25" and half-height 3.5" disk drives which are accessible from the front panel, One internal half-height 3.5" disk drives</b></p>
<b>Display Indicator</b>	<p><b>*One built-in power LED indicators</b></p> <p><b>*One buiilt-in HDD LED indicators</b></p>
<b>Add-on Card Bridge and Card Clamp</b>	<b>Flexible card clamp can protect add-on cards from vibration</b>
<b>Switch</b>	<p><b>-Power On/Off Switch</b></p> <p><b>-Reset Switch</b></p>
<b>Connector (Front Side):</b>	<b>*One keyboard connector</b>
<b>(Rear Side):</b>	<b>*One reserved port for 25-pin connector</b>
<b>MTBF</b>	<b>100,000 hrs</b>
<b>Power Safety (250W AC)</b>	<b>UL, CSA and TUV approved</b>

<b>EMI</b>	<b>FCC Class A and CISPR 22 approved</b>
<b>Operating Temp.</b>	<b>0° ~ 45°C (32° ~ 113°F)</b>
<b>Storage Temp.</b>	<b>0° ~ 75°C (32° ~ 167°F)</b>
<b>Operating Humidity</b>	<b>5% ~ 95%, Non-condensing</b>
<b>Storage Humidity</b>	<b>5% ~ 95%</b>
<b>Altitude</b>	<b>10,000 ft (3,000 m)</b>
<b>Vibration (operating)</b>	<b>1.5G Max</b>

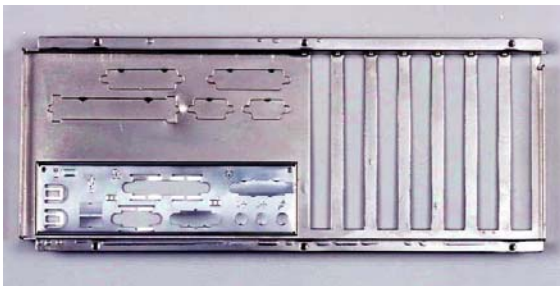
### **Backplane Option**

- CBP-14I
- CBP-14P4
- CBP-14P4L
- CBP-14P7
- CBP-14P12
- CBP-14DP4

### **Power Option**



- 250W AC AT power supply
- 250W AC ATX power supply
- 300W AC AT Redundant power supply
- 300W AC AT power supply
- 300W AC ATX power supply
- 310W DC 48 power supply

### **ATX Rear Panel Option**



### **Rear Panel Option**

#### **B/P Version Rear Panel**

-  Outline Drawing
-  3D Drawing

### ATX M/B Version Rear Panel

- Outline Drawing
- 3D Drawing

### DVR w/ MB Version Rear Panel

- Outline Drawing
- 3D Drawing

## Ordering Guide

### Main Board Version

KCH-901MB	4U 19" Rackmount Industrial Chassis, w/o P/S, w/o Backplane, MB Rear Panel
KCH-901MB-250A	4U 19" Rackmount Industrial Chassis, w/ 250W ATX P/S, w/o Backplane
KCH-901MB-300A	4U 19" Rackmount Industrial Chassis, w/ 300W ATX P/S, w/o Backplane
KCH-901-DVR	4U 19" Rackmount Industrial Chassis, w/ 250W ATX P/S, w/o Backplane. DVR Rear Panel

### Passive Backplane Version

KCH-901BP	4U 19" Rackmount Industrial Chassis, w/o P/S, w/o Backplane, Backplane Rear Panel
KCH-901BP-250	4U 19" Rackmount Industrial Chassis, w/ 250W AT P/S, w/o Backplane
KCH-901BP-300	4U 19" Rackmount Industrial Chassis, w/ 300W AT P/S, w/o Backplane
KCH-901BP-300DC48	4U 19" Rackmount Industrial Chassis, w/ DC 48V 310W AT P/S, w/o Backplane
KCH-901I-250	4U 19" Rackmount Fault Resilient Server Chassis, w/ 250W AT P/S, w/ CBP-14I Backplane
KCH-901P4-250	4U 19" Rackmount Fault Resilient Server Chassis, w/ 250W AT P/S, w/ CBP-14P4 Backplane
KCH-901P4L-250	4U 19" Rackmount Fault Resilient Server Chassis, w/ 250W AT P/S, w/ CBP-14P4L Backplane

KCH-901P4-250-01	4U 19" Rackmount Fault Resilient Server Chassis, w/ 250W AT P/S, w/ CBP-14P4-01 Backplane(Cost Efficient Version)
KCH-901DP4-250	4U 19" Rackmount Fault Resilient Server Chassis, w/ 250W AT P/S, w/ CBP-14DP4 Backplane

### Active Backplane Version

KCH-901P7-250	4U 19" Rackmount Fault Resilient Server Chassis, w/ 250W AT P/S, w/ CBP-14P7 Backplane
KCH-901P12-250	4U 19" Rackmount Fault Resilient Server Chassis, w/ 250W AT P/S, w/ CBP-14P12 Backplane