

## 7U CPCI 系统平台

### 系统特点



- 7U19” 标准铝机箱，垂直插卡，机架式安装
- 支持 14 块 6U\*160mm 前插卡和 6U\*80mm 后插卡
- 装配 1 个 6U14 标准 CPCI+PSB 背板
- 可配 1 个 6U4HP 监控模块
- 最大可配 2 个 6U8HP 输入电源模块（可选配 4 个 6U4HP 电源）
- 直流输入供电方式
- 最大 427.3CFM，支持 50W/slot 的散热能力

7U CPCI 系统平台，是新一代工业计算机、刀片式服务器和网络通信设备的高可靠性通信平台，包括机箱、背板、监控模块、电源模块、可拔插风扇盘等组成部分。

系统平台遵循 PICMG2.0 R3.0 技术规范，采用 IEEE 1101.1/10/11 和 IEC-60297-1/2 标准 19” 欧式机箱结构，通过背板实现高速数据互连。可与各种 CPCI 业务数据板卡一起构成完整系统，快速构建应用平台。

系统平台可采用 1+1 冗余供电方式或 2+2 冗余供电方式

系统平台采用独特的冷却方式，机箱的下侧有 1 个可拔插风扇盘，顶部开孔，自下而上出风，确保系统均匀通风和散热，最大通风量为 427.3CFM，可支持 50W/slot 的散热能力。

## 系统背板

- 名称：6U14 标准 CPCI+2.16 背板
- 支持：PICMG2.0, PICMG2.1, PICMG2.16
- 结构：1 个 System 插槽，11 个外围槽，2 个交换槽
- V(I/O)：出厂默认+5V
- PCI 总线带宽：64bit/33MH

## 示意图



## 电源模块



- 电源尺寸: 6U8HP
- 输入电压: 220Vac
- 输出电压: +3.3V, +5V, +12V, -12V
- 输出功率: 500W

### ➤ 技术参数

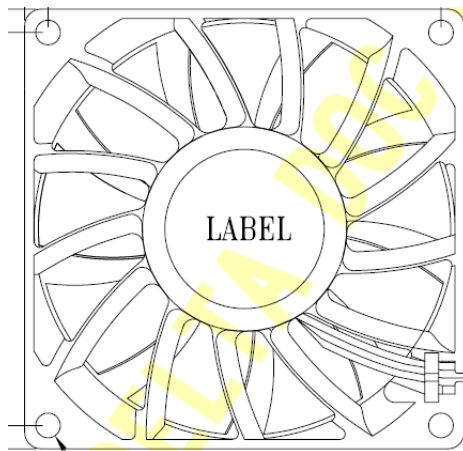
#### INPUT SPECIFICATION

**Input Voltage:** Typ. 90-264Vac.  
**Power Factor Correction:** Meet Harmonic Correction IEC 61000-3-2. Power Factor typ. 0.99.  
**Input Connector:** Positronic 47-pin PCIH47M400A1.  
**Input Frequency:** 47-63Hz.  
**Inrush Current:**  $\leq 30.6A(rms)$  at 230Vac.  
**Input Current:** 5.1A at 115Vac/2.6A at 230Vac.  
**Dielectric Withstand:** Meet IEC 60950-1 regulation.  
**Transient Protection:** MOV withstands transient as specified by EN 61000-4-4 level 3.  
**EMI:** Meet EN 55022 Class A.  
**Hold-up Time:** 22.4mS at 115Vac, 34mS at 230Vac.  
**Remote ON/OFF:** Available at [INH#] & [EN#] pins.  
**Power Fail Signal:** Available at [FAL#] pin.  
**Status LED:** <Green> means valid input voltage.  
<Amber> means a critical fault.  
**Thermal Protection (OTP):** Installed NTC and thermostat for thermal sensor at [DEG#] pin.  
**Leakage Current:** Typ. 0.7mA at 230Vac.

#### OUTPUT SPECIFICATION

**Output Voltage:** See Ratings Chart.  
**Output Current:** See Ratings Chart.  
**Output Power:** Typ. 500W continuous.  
**Output Connector:** Positronic 47-pin PCIH47M400A1.  
**Line Regulation:** Typ. 0.1%.  
**Load Regulation:** VO1 & VO2 typ.  $\pm 0.5\%$ .  
VO3 typ.  $\pm 1.0\%$ , VO4 typ.  $\pm 3.0\%$ .  
**Noise & Ripple:** Typ. 1% peak-peak or 50mV, whichever is greater.  
**OVP:** Built-in at all outputs.  
**Adjustability:** Available at VO1,2,3 & 4.  
**Output Trim:** Electrical trim available at VO1/2. [ADJ #].  
**Remote Sensing:** Available at VO1, VO2 & VO3.  
**Hot-Swap:** Available.  
**N+1 Redundancy:** Installed with internal OR-ing diodes at all outputs and third-wire current sharing method for N+1 redundancy operation.  
**Current Sharing:** Third-wire current sharing at VO1,2 & 3.  
**DC OK Signal:** Available for all outputs.  
**Power OK Signal:** Available for all outputs.  
**Over Current Protection (OCP):** Installed at each rail.  
**Overload Protection (OLP):** Fully protected against output overload or short circuit. Typ. 120-130% max. load. Consult the factory for special OLP setting.

## 风扇模块



- 风扇尺寸：80\*80\*25
- 工作电压：12V
- 工作电流：0.5A
- 功率：6W
- 风量：67.02CFM

### ➤ 技术参数

ITEM	DESCRIPTION
RATED VOLTAGE	12VDC
OPERATION VOLTAGE	4.0 - 13.2 VDC
INPUT CURRENT	0.50 (MAX. 0.60) A
INPUT POWER	6.00 (MAX. 7.20) W
SPEED	4500R.P.M. (REF.)
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	1.898(MIN. 1.708 ) M <sup>3</sup> /MIN. 67.02 (MIN. 60.26 ) CFM
MAX. AIR PRESSURE (AT ZERO AIRFLOW)	9.955 (MIN. 8.063 ) mmH <sub>2</sub> O 0.392 (MIN. 0.317 ) inchH <sub>2</sub> O
ACOUSTICAL NOISE (AVG.)	48.6 (MAX. 52.6) dB-A
INSULATION TYPE	UL: CLASS A

INSULATION STRENGTH	10 MEG OHM MIN. AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)
DIELECTRIC STRENGTH	5 mA MAX. AT 500 VAC 60 Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL)
EXTERNAL COVER	OPEN TYPE
LIFE EXPECTANCE	70,000 HOURS CONTINUOUS OPERATION AT 40 °C WITH 15 ~ 65 %RH.
ROTATION	CLOCKWISE VIEW FROM NAME PLATE SIDE
OVER CURRENT SHUT DOWN	THE CURRENT WILL SHUT DOWN WHEN LOCKING ROTOR
LEAD WIRE	UL 1007 -F- AWG #24 BLACK WIRE NEGATIVE(-) RED WIRE POSITIVE(+) BLUE WIRE (FOO)

### 订货型号

7U 标准 CPCI 系统 1 块 6U CPCI 电源	7U 标准 CPCI 系统 4 块 3U CPCI 电源
7.5.7.841114-003	7.5.7.841114-001