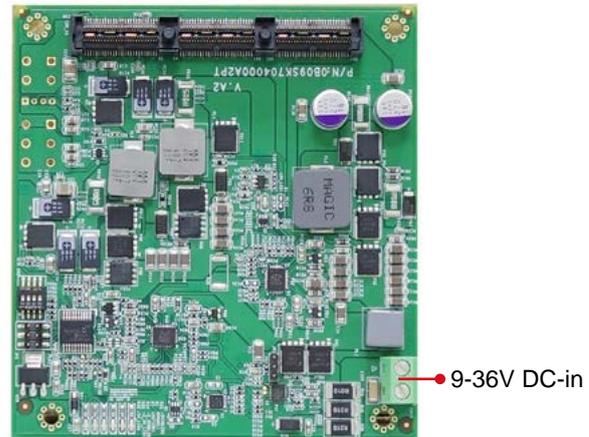
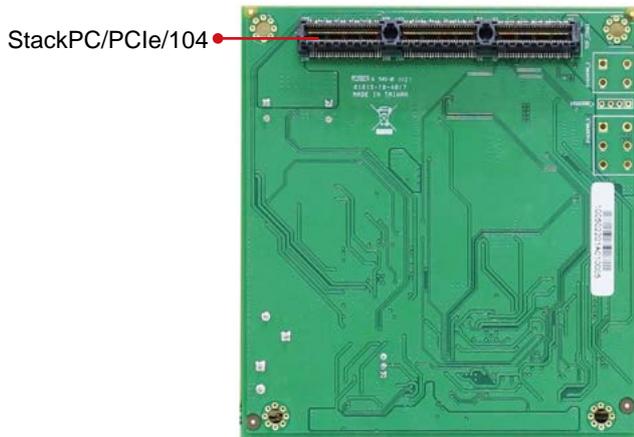


# SK704

PERFECTRON

PCIe/104(StackPC) 105 watt DC/DC PSU module



## ▶ Product Overview

SK704 is a PCIe/104(StackPC) peripheral module designed for embedded stackable system, transferring from 9V ~ 36V DC-in to +3.3V, +5V, +5V\_SB and +12V DC-out. The power module supplies maximum 105Watt power output with PCIe/104 stackable bus structure. It is designed with Linear Tech, providing high performance IC and power capabilities. It is available with not only StackPWR connectors but also PCIe/104 connectors. SK704 allows a wide input voltage range from +9V to +36V DC. The elaborate placement of controllers makes it able to operate under harsh environment from -40 to 85°C. As the heat generation is accumulated on the bottom; therefore the heat could easily be conducted to the aluminum heat sink or chassis and further be dissipated. Besides, this allows the users easier to build a fanless system. With its high efficiency and the capabilities, SK704 is suitable for mission-critical rugged applications including military, heavy-duty vehicles, light industry and so on.

## ▶ Main Features

- PCIe/104 Stackable bus (Type2)
- Input voltage 9V to 36V DC-in
- 105W Max output power
  - +3.3V@3A (10W Max.)
  - +5V@6A (30W Max.)
  - +5V\_SB@1A (5W Max.)
  - +12V@4-5A (50-60W Max.)
- Efficiency as high as 90%
- Use Linear Tech, providing high performance IC
- StackPC & PCIe/104 compliant
- Extended temperature -40 to 85°C

## ▶ Standard Power Delivery

### ◎ StackPWR Power Delivery

Voltage	Minimum Voltage (V)	Maximum Voltage (V)	Number of Pins	Current per Pin (A)	Total Current (A)	Total Power (W)
+3.3V	3.00	3.60	1	5.5	5.5	18.15
+5V	4.75	5.25	2	5.5	11	55.0
+5V_SB	4.75	5.25	1	2.5	2.5	12.5
+12V	11.4	12.6	1	5.5	5.5	66.0
GND	n/a	n/a	5	5.5	27.5	n/a
GND	n/a	n/a	1	2.5	2.5	n/a

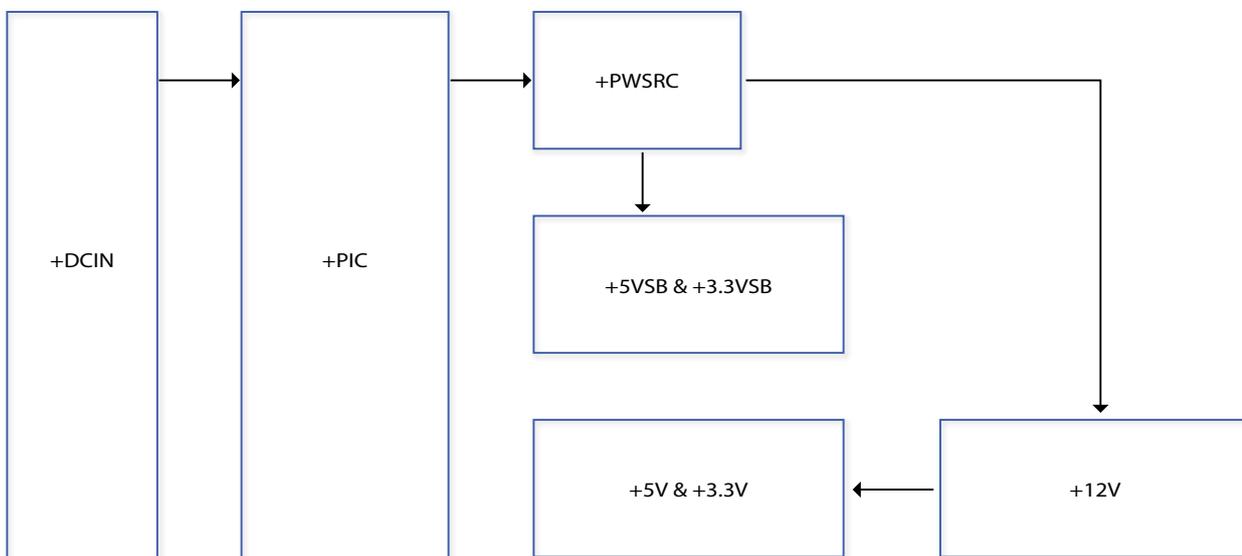
### ◎ StackPC (PCIe/104) Power Delivery

Voltage	Minimum Voltage (V)	Maximum Voltage (V)	Number of Pins	Current per Pin (A)	Total Current (A)	Total Power (W)
+3.3V	3.0	3.6	2	1.8	3.6	11.9
+5V	4.75	5.25	2 planes	8.4	16.8	84.0
+5V_SB	4.75	5.25	2	1.8	3.6	18.0
+12V	11.40	12.60	1 plane	8.4	8.4	100.8
GND	n/a	n/a	37	1.8	66.6	n/a
GND	n/a	n/a	1	2.5	2.5	n/a

## ► Specifications

Interface	StackPC PWR or PCIe/104 stackable bus (Type2)
Input voltage	+9V to +36V DC
Maximum output power	105W Max. +3.3V@3A (10W Max.) +5V@6A (30W Max.) +5V_SB@1A (5W Max.) +12V@4-5A (50-60W Max.)
Efficiency	Up to 90%
Operating Temperature	Extended Temperature -40 to 85°C
Dimension	95 x 90 mm

## ► Block Diagram



## ► Ordering Information

SK704-S	SK704-P
	
PCIe/104 StackPC connector, Extended temp. -40°C to 85°C	StackPC PWR connector, Extended temp. -40°C to 85°C