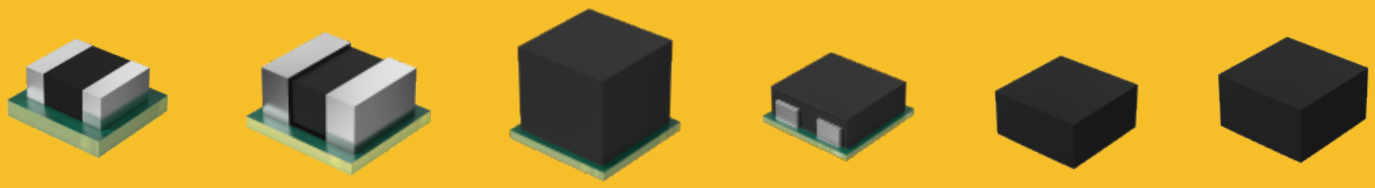
PSiP(Power Supply in a Package)

Fully integrated non-isolated DC-DC power module



Product Overview

Huawei PSiP modules are new-generation fully integrated power modules. They use industry-leading packaging technologies to greatly improve the power density of the modules, reduce parasitic parameters between components and enable high-frequency, high-density and high-efficiency power modules.

The PSUs support 3.3V DC/5V DC/12V DC input. The output voltage is adjustable from 0.6V DC to 5.5V DC. The current ranges from 0A to 20A. Therefore, The modules are easy to use, improving the integration development efficiency and achieving quick delivery.

It is widely used in various scenarios, such as communications, servers, industrial, rail transit and automation.

Features

- High efficiency, up to 96.5%
- High density, smaller size at the same power
- Dynamic and fast load response
- Trim wide range voltage scaling, remote on/off controllable, PG signal indication
- Input undervoltage protection, output overcurrent protection, output short circuit protection, and overtemperature protection
- Fully integrated package for harsh and complex environments
- Surface mount package, supporting SMT processing
- Compliant with RoHS2.0 standards

Specifications

Product Model	Input Voltage	Output Voltage	Output Current	Output Power	Efficiency	Dimensions (D*W*H)
NAE03S03-B	3.0V DC~5.75V DC	0.8V DC~3.7V DC	0~3A	11.1W	93.5%	3.0mm*2.8mm*1.6mm
NAE12S03-B	6.3V DC~14V DC	0.8V DC~5.2V DC	0~3A	10.4W	92%	3.0mm*2.8mm*1.6mm
NAM03S06-D	3.0V DC~5.75V DC	0.9V DC~3.7V DC	0~6A	22.2W	96.5%	8.0mm*8.0mm*4.0mm
NAM12S06-D	9V DC~14V DC	0.7V DC~5.4V DC	0~6A	32.4W	93.5%	7.0mm*7.0mm*4.0mm
NAE12S17-B	3.0V DC~3.6V DC/ 4.5V DC~6.0V DC/ 8V DC~14V DC	0.6V DC~1.2V DC/ 0.6V DC~2.1V DC/ 0.6V DC~5.5V DC	0~17A/ 0~10A	55W	92%	7.0mm*7.0mm*6.0mm
NAE12S20-C	3.0V DC~3.6V DC/ 4.5V DC~6.0V DC/ 8V DC~14V DC	0.6V DC~1.2V DC/ 0.6V DC~2.1V DC/ 0.6V DC~5.5V DC	0~20A	110W	92%	11.0mm*11.0mm*4.0mm

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