



## The BM1387 ASIC Chip

The world's first bitcoin mining ASIC based on the 16nm process node

Bitmain's BM1387 chip is built using TSMC's 16nm FinFET technology and, delivering a record-breaking 0.098 J/GHs, is the world's most efficient bitcoin mining chip in the consumer market.

Each Antminer S9 employs 189 such chips to deliver more hashrate and efficiency than any bitcoin miner ever made.



## Controlled by a Dual ARM® Cortex®-A9 Microprocessor

S9's control board uses a Xilinx® Zynq®-7000 series FPGA with a Dual ARM® Cortex®-A9 microprocessor

Bitmain's engineering team understood the importance of every detail while working to make the world's most power-efficient yet powerful Bitcoin miner. The Antminer S9's control board employs the fast Dual ARM® Cortex®-A9 microprocessor with CoreSight™ and supports Gigabit Ethernet to ensure that mined blocks are submitted instantly.



## Ease of Use

Antminer's user interface has been carefully designed keeping in mind the needs of our users

After you have accessed the Antminer's user interface, all you have to do is to enter your wallet address and mining pool settings before you start mining. The user interface also allows you to customize settings and can be upgraded to new releases from Bitmain.



Hash Rate	11.5TH/s, 12.5TH/s, 13TH/s, 13.5TH/s & 14TH/s, depending on batch. Variation of $\pm 5\%$ is expected
Power Consumption	1127W (11.5TH/s batch), 1225W (12.5TH/s batch), 1274W (13TH/s batch), 1323W (13.5TH/s batch), 1372W (14TH/s batch) (at the wall, with Bitmain's APW3 PSU, 93% efficiency, 25°C ambient temp). Expected discrepancy of +10%
Power Efficiency	0.098 J/GH +10% at the wall (with Bitmain's APW3 PSU, 93% efficiency, 25°C ambient temp)
Rated Voltage	11.60 ~13.00V
Chip quantity per unit	189x BM1387
Dimensions	350mm(L) x 135mm(W) x 158mm(H)
Cooling	2x 12038 fans; Front fan: 6000rpm, Rear fan: 4300rpm
Operating Temperature	0°C to 40°C
Network Connection	Ethernet
Frequency	Automatically set