



# S21

## Product Manual

Jan. 2025

**BITMAIN**

BITMAIN TECHNOLOGIES INC.

[www.bitmain.com](http://www.bitmain.com)

# 1.Specification

Product Glance	Value				
Model	S21				
Version	L1-10				
Crypto algorithm/coins	SHA256   BTC/BCH/BSV				
Typical Hashrate, TH/s <sup>(1-1)</sup>	200	195	188	175	151
Power on wall @25°C <sup>(1-2)</sup> , Watt <sup>(1-1)</sup>	3500	3412	3290	3062	2642
Power efficiency on wall @25°C <sup>(1-2)</sup> , J/T <sup>(1-1)</sup>	17.5				

Detailed Characteristics	Value
<b>Power supply</b>	
Power supply AC input voltage, Volt <sup>(2-1)</sup>	220~277V
Power supply AC Input Frequency Range, Hz	50~60
Power supply AC Input current, Amp	20
Adapted AC output power requirement, W	4000
<b>Hardware Configuration</b>	
Network connection mode	RJ45 Ethernet 10/100M
Server size (Length*Width*Height, w/o package), mm	400*195*290
Server size (Length*Width*Height, with package), mm	570*316*430
Net weight, kg	15.4
Gross weight, kg	17.2
Noise <sup>(2-2)</sup> @30°C, dBA	76
Max airflow <sup>(2-3)</sup> , CFM	380
<b>Environment Requirements</b>	
Operation temperature, °C	0~45
Storage temperature, °C	-20~70
Operation humidity, RH	10%~90%(non-condensing)
Operation altitude <sup>(2-4)</sup> , m	≤2000

## NOTE:

(1-1) The Hashrate value, Power on wall, and Power efficiency on wall are all typical values. The actual Hashrate value fluctuates by ±3%, and the actual Power on wall and Power efficiency on wall fluctuate by ±5%.

(1-2) Inlet air temperature.

(2-1) Caution: Wrong input voltage may probably cause server damaged.

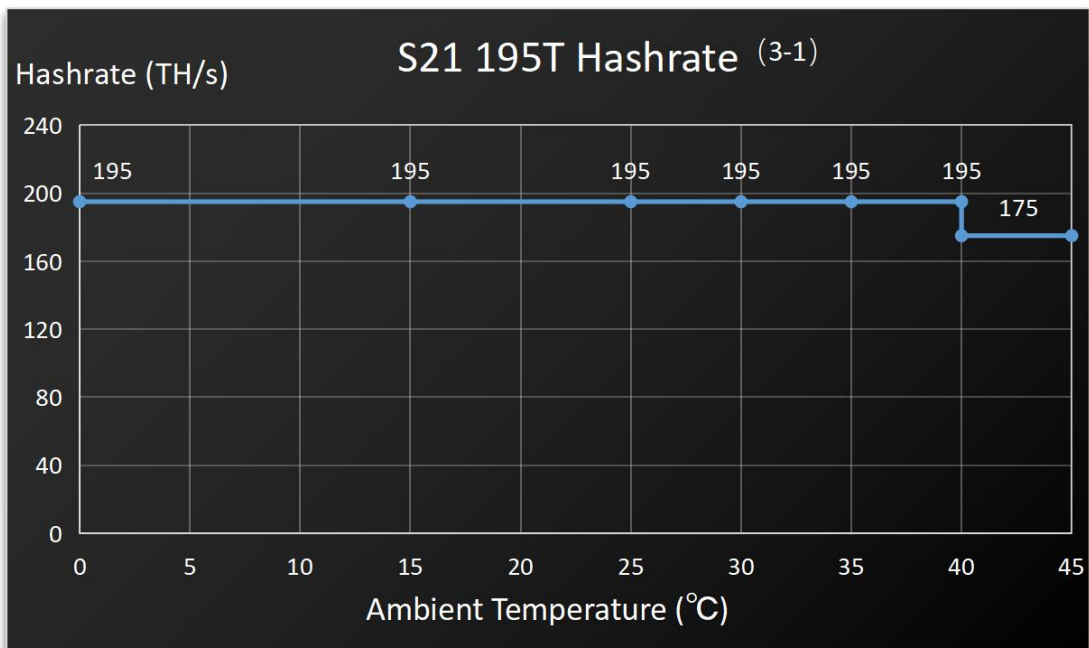
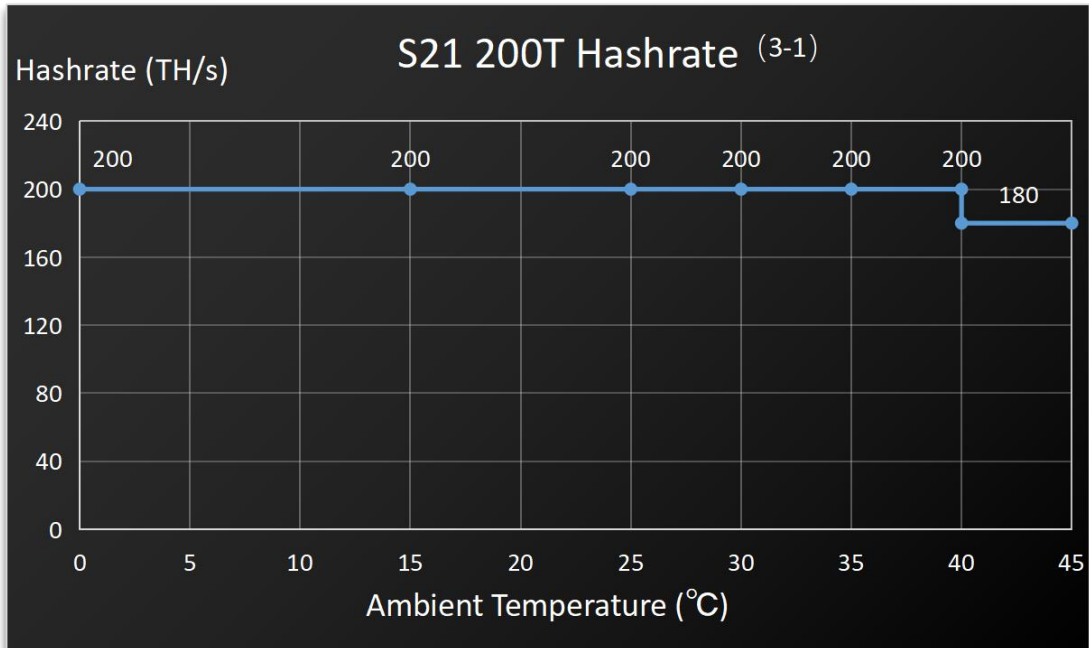
(2-2) Max condition: Fan is under max RPM (rotation per minute).

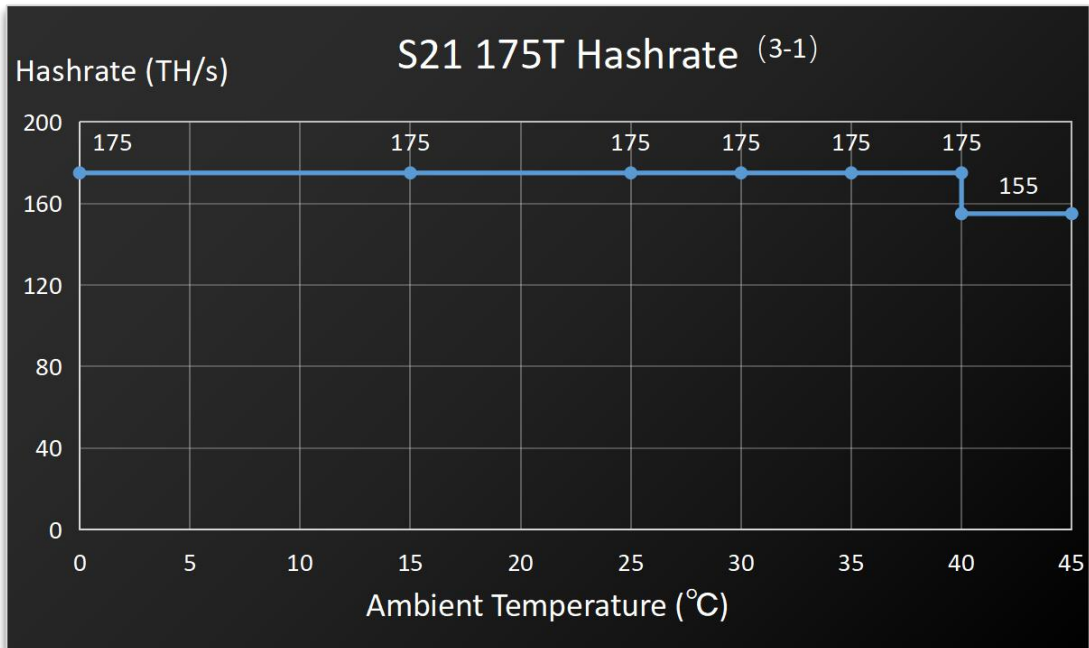
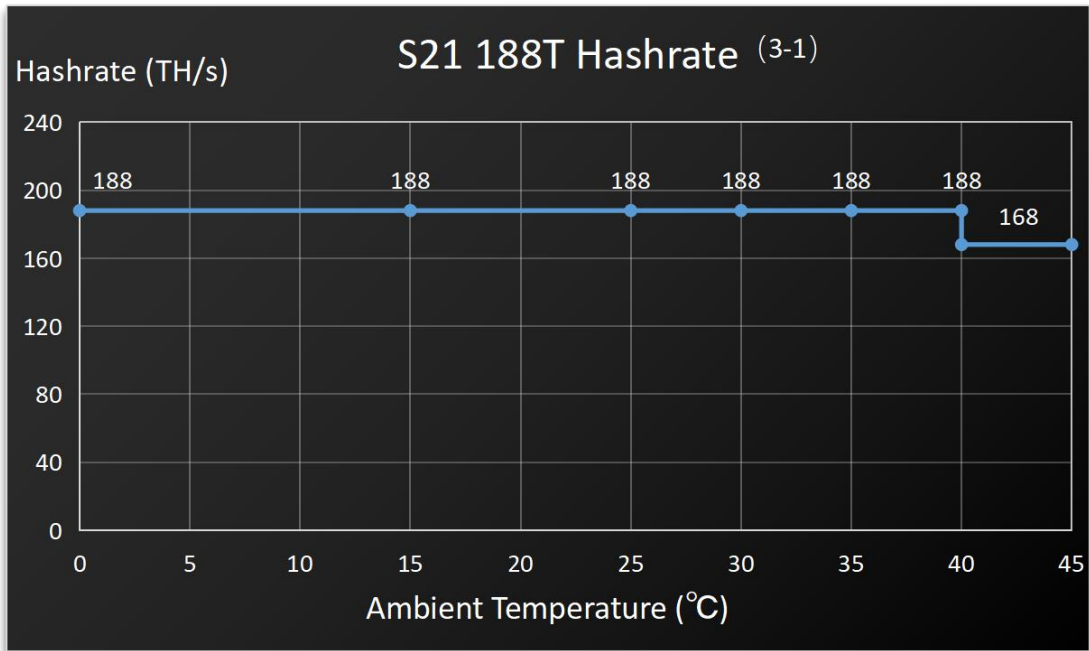
(2-3) When the server is dusty or the environment is poorly ventilated, the server airflow will reduce.

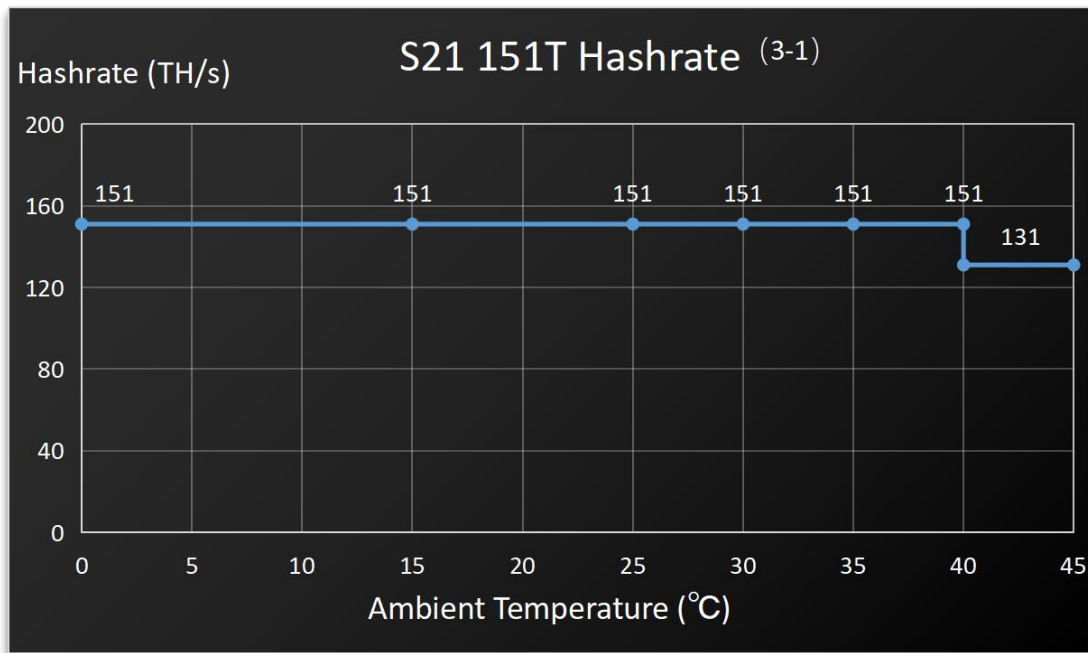
(2-4) When the server is used at an altitude from 900m to 2000m, the highest operating temperature decreases by 1°C for every increase of 300m.

## 2. Performance Curves

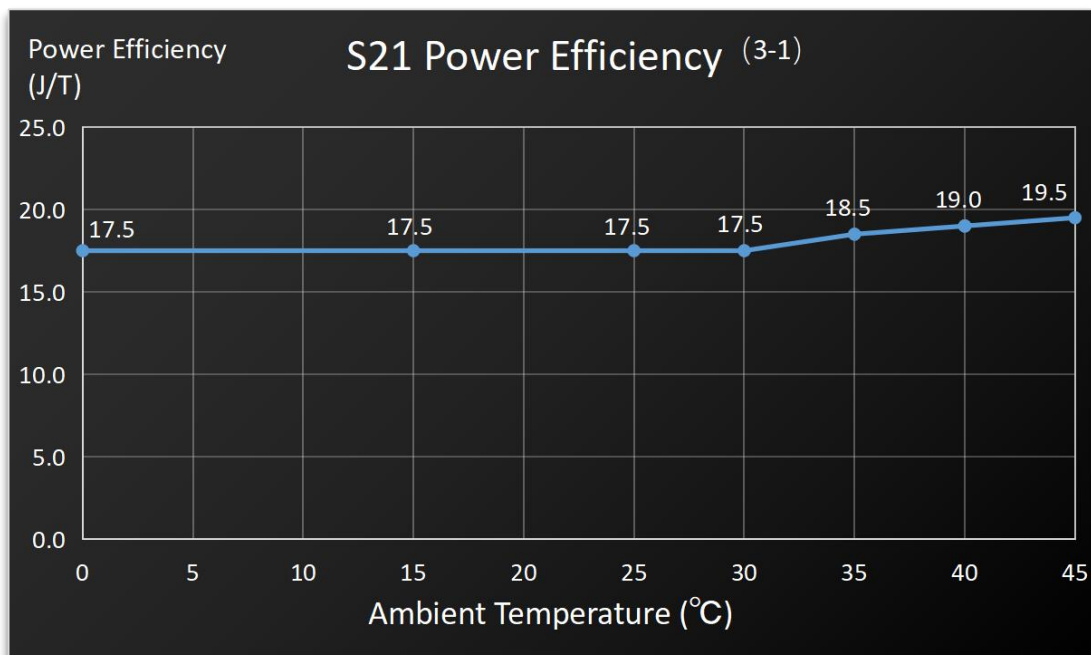
### (1) Hashrate vs. Ambient Temperature







## (2) J/T vs. Ambient Temperature



(3-1) The hashrate value, and power efficiency on wall are all typical values. The actual hashrate value fluctuates by  $\pm 3\%$ , and the actual power efficiency on wall fluctuate by  $\pm 5\%$ .