



# S21 Pro

## Product Manual

Mar. 2025

**BITMAIN**

BITMAIN TECHNOLOGIES INC.

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# 1.Specification

Product Glance	Value		
Model	<b>S21 Pro</b>		
Sub	<b>245T</b>	<b>234T</b>	<b>220T</b>
Version	<b>10</b>		
Crypto algorithm/coins	<b>SHA256   BTC/BCH/BSV</b>		
Typical Hashrate, <b>TH/s</b> <sup>(1-1)</sup>	<b>245</b>	<b>234</b>	<b>220</b>
Power on wall @25°C <sup>(1-2)</sup> , <b>Watt</b> <sup>(1-1)</sup>	<b>3675</b>	<b>3510</b>	<b>3300</b>
Power efficiency on wall @25°C <sup>(1-2)</sup> , <b>J/TH</b> <sup>(1-1)</sup>	<b>15</b>		

Detailed Characteristics	Value
<b>Power supply</b>	
Phase	<b>1</b>
Power supply AC input voltage <sup>(2-1)</sup> , <b>Volt</b>	<b>220~277V AC</b>
Power supply AC Input Frequency Range, <b>Hz</b>	<b>50~60</b>
Power supply AC Input current <sup>(2-2)</sup> , <b>Amp</b>	<b>20</b>
<b>Hardware Configuration</b>	
Network connection mode	<b>RJ45 Ethernet 10/100M</b>
Server size (Length*Width*Height, w/o package), <b>mm</b>	<b>450*219*293</b>
Server size (Length*Width*Height, with package), <b>mm</b>	<b>630*350*430</b>
Net weight, <b>kg</b>	<b>18.5</b>
Gross weight, <b>kg</b>	<b>21.5</b>
Nosie <sup>(2-3)</sup> @30°C, <b>dBA</b>	<b>76</b>
Max airflow <sup>(2-4)</sup> , <b>CFM</b>	<b>480</b>
<b>Environment Requirements</b>	
Operation temperature, °C	<b>-20~45</b>
Storage temperature, °C	<b>-20~70</b>
Operation humidity(no condensation), <b>RH</b>	<b>10%~90%</b>
Operation altitude <sup>(2-5)</sup> , <b>m</b>	<b>≤2000</b>

## 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) Single-phase AC input 20A.

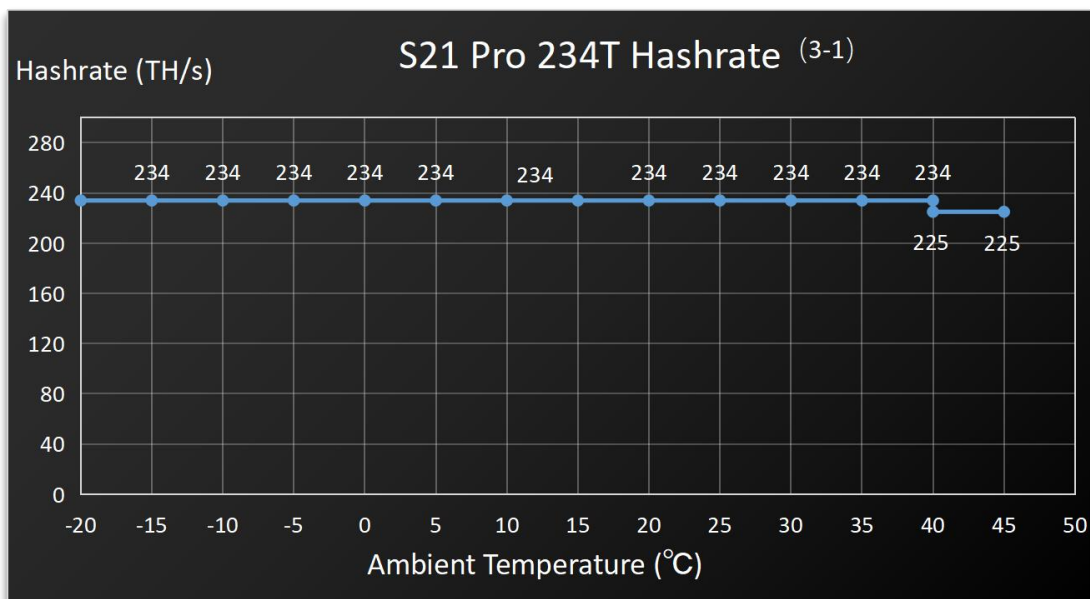
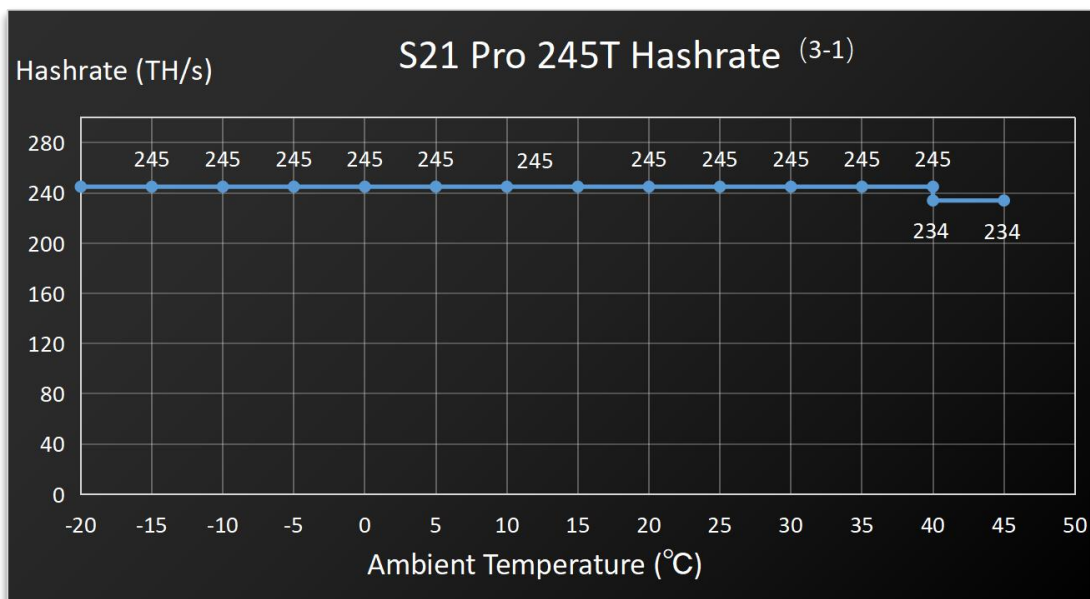
(2-3) Max condition: Fan is under max RPM(rotation per minute).

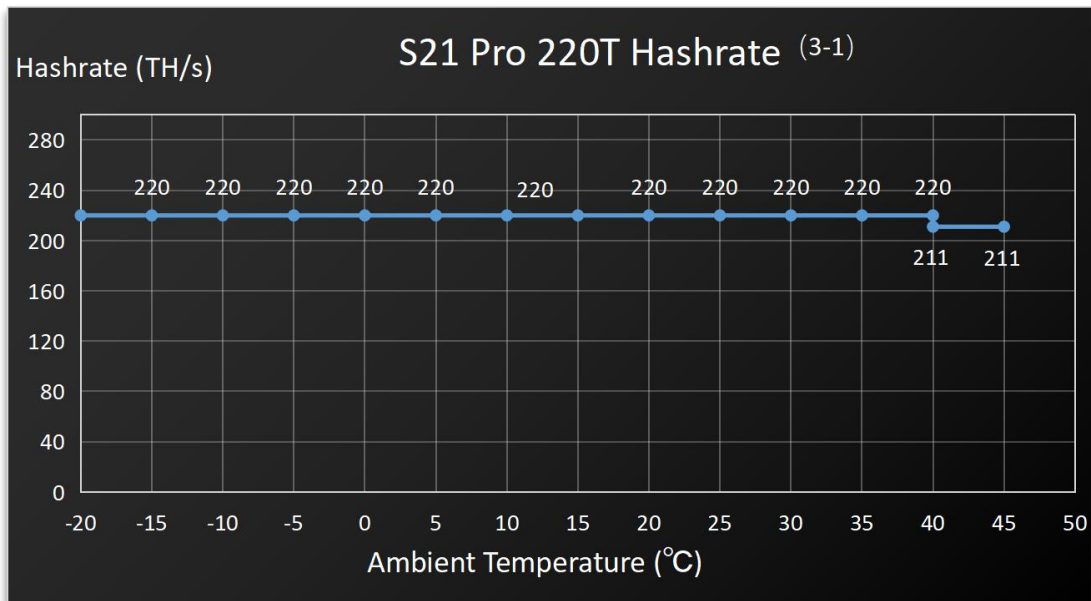
(2-4) When the server is dusty or the environment is poorly ventilated, the server airflow will reduce.

(2-5) 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.

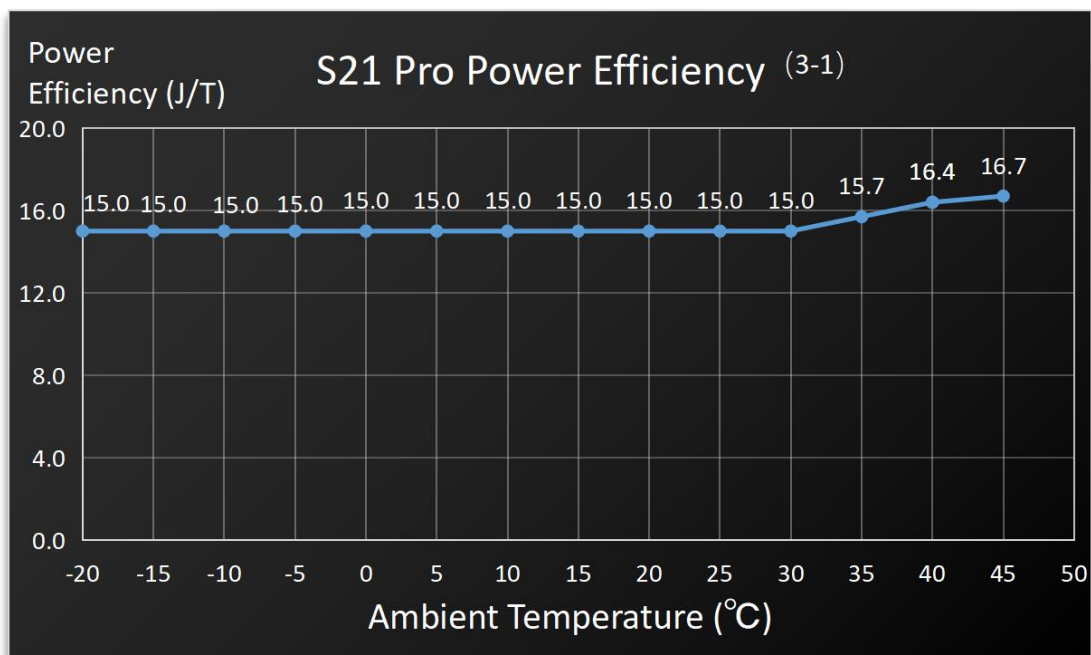
## 2. Performance Curves

(1) Hashrate vs. Ambient Temperature





(2) J/T vs. Ambient Temperatur



## Notes:

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(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  $\pm 5\%$ .