ANTMINER

S21+

Product Manual

Feb. **2025**

BITMAIN

BITMAIN TECHNOLOGIES INC.

1.Specification

Product Glance	Value		
Model	**S21+**		
Version	**10**		
Crypto algorithm/coins	**SHA256 | BTC/BCH/BSV**		
Typical Hashrate, **TH/s**(1-1)	**235**	**226**	**216**
Power on wall @25℃(1-2), **Watt**(1-1)	**3878**	**3713**	**3564**
Power efficiency on wall@25℃(1-2), **J/TH**(1-1)	**16.5**		

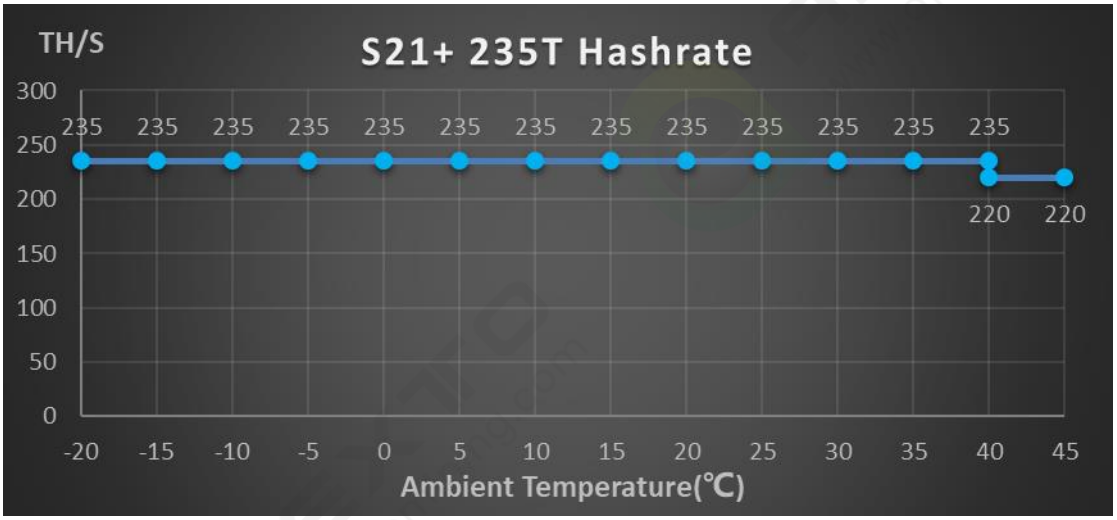
Detailed Characteristics	Value
Power supply	
Phase	**1**
Input voltage range(2-1), **Volt**	**220~277**
Input frequency range, **Hz**	**50~60**
Maximum input current(2-2), **Amp**	**20**
Hardware Configuration	
Network connection mode	**RJ45 Ethernet 10/100M**
Server size (Length*Width*Height, w/o package), **mm**	**450*219*293**
Server size (Length*Width*Height, with package), **mm**	**630*350*430**
Net weight, **kg**	**21.5**
Gross weight, **kg**	**24.5**
Noise(2-3)@30℃, **dBA**	**76**
Max airflow(2-4)， **CFM**	**550**
Environment Requirements	
Operation temperature,**℃**	**-20~45**
Storage temperature, **℃**	**-20~70**
Operation humidity(no condensation), **RH**	**10%~90%**
Operation altitude(2-5), **m**	**≤2000**

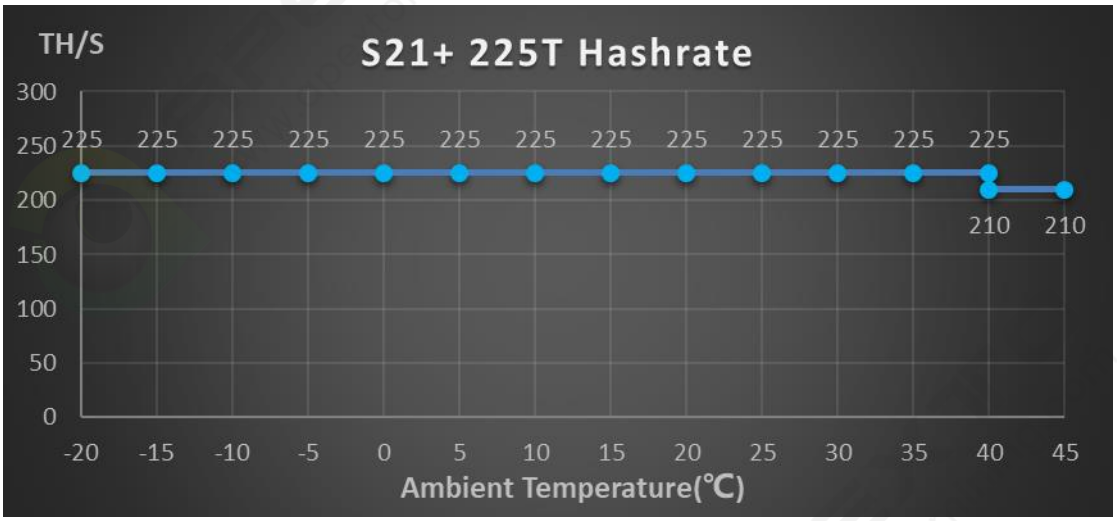
Notes:

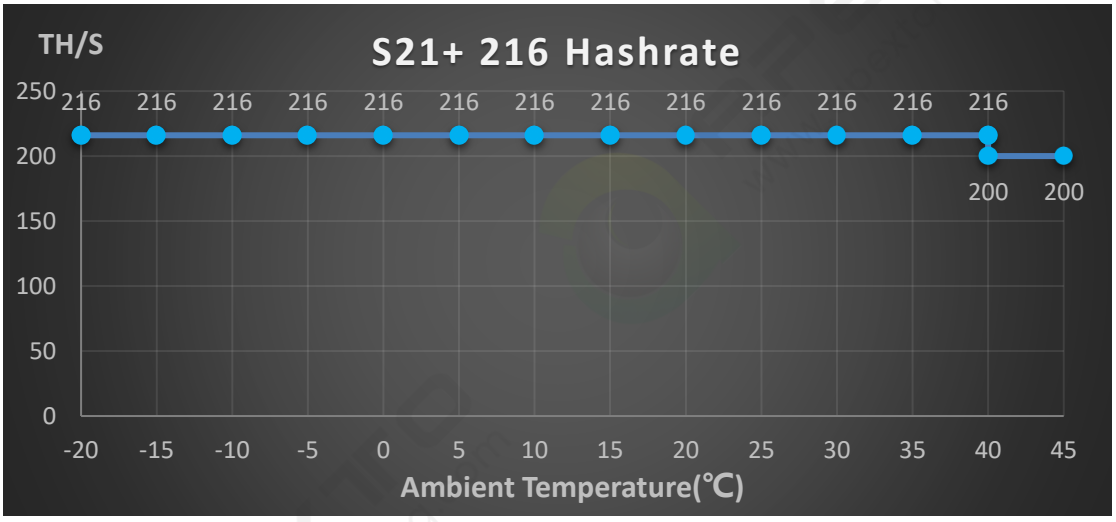
(1-1) The Hashrate value, Power on wall, and Power efficiency on wall are all typical value. The actual Hashrate value fluctuates by ±3%, and the actual Power on wall and Power efficiency on wall fluctuate by ±5%.
(1-2) Inlet air temperature.
(2-1) Caution: Wrong input voltage may probably cause server damaged.
(2-2) Single-phase AC input 20 A.
(2-3) The noise is loudest when the fan is under maximum 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℃ for every increase of 300m.

2. Performance Curves

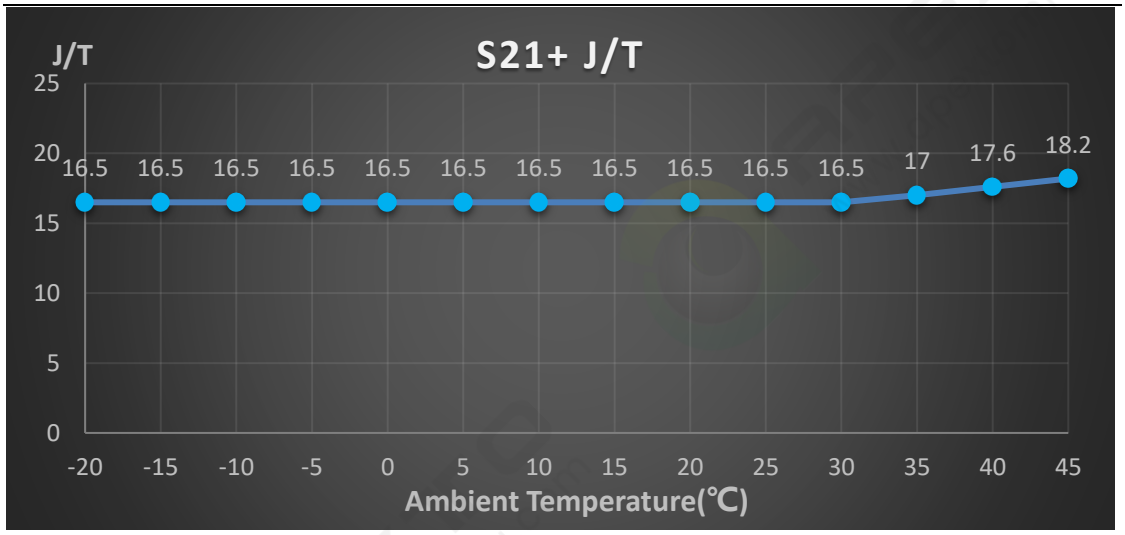
(1) Hashrate vs. Ambient Temperature







(2) J/T vs. Ambient Temperature


S21+ J/T
J/T
25
20
15
10
5
0
16.5
16.5
16.5
16.5
16.5
16.5
16.5
16.5
16.5
16.5
16.5
17
17.6
18.2
-20
-15
-10
-5
0
5
10
15
20
25
30
35
40
45
Ambient Temperature(℃)