ANTMINER

T21

Product Manual

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BITMAIN

BITAMIN TECHNOLOGIES INC.

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1. Specification

Product Glance	Value
Model	**T21**
Version	**L1-10**
Crypto algorithm/coins	**SHA256/BTC**
Typical hashrate, **TH/s**[1-1]	**190**
Power on wall @25℃[1-2], **Watt**[1-1]	**3610**
Power efficiency on wall @25℃, **J/TH**[1-1]	**19.0**

Detailed Characteristics	Value
Power supply	
Power supply AC input voltage range, **V**[2-1]	**380~415V AC**
Power supply AC input frequency range, **Hz**	**50~60**
Power supply AC input current, **A**[2-2]	**12**
Adapted AC output power requirement, **W**[2-3]	**6000**
Hardware configuration	
Networking connection mode	**RJ45 Ethernet 10/100M**
Server size (Length*Width*Height, w/o package), **mm**	**400*212*290**
Server size (Length*Width*Height, with package), **mm**	**570*316*430**
Net weight, **kg**	**17.0**
Gross weight, **kg**	**19.1**
Noise, **dBA** @25℃ [2-4]	**76**
Environment requirements	
Operation temperature, ℃	**0~45**
Storage temperature, ℃	**-20~70**
Operation humidity, **RH**	**10%~90%**
Operation altitude, **m** [2-5]	**≤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 cause server damage.

(2-2) Three-phase AC input, 10 A per wire.

(2-3) Caution: It is strongly recommended that the power on wall of the miner does not exceed this value.

(2-4) Max condition: Fan is under max RPM (rotation per minute).

(2-5) When the miner is used at an altitude from 900m to 2000m, the highest operating temperature decreases by 1℃ for every increase of 300m.

2. Working Mode

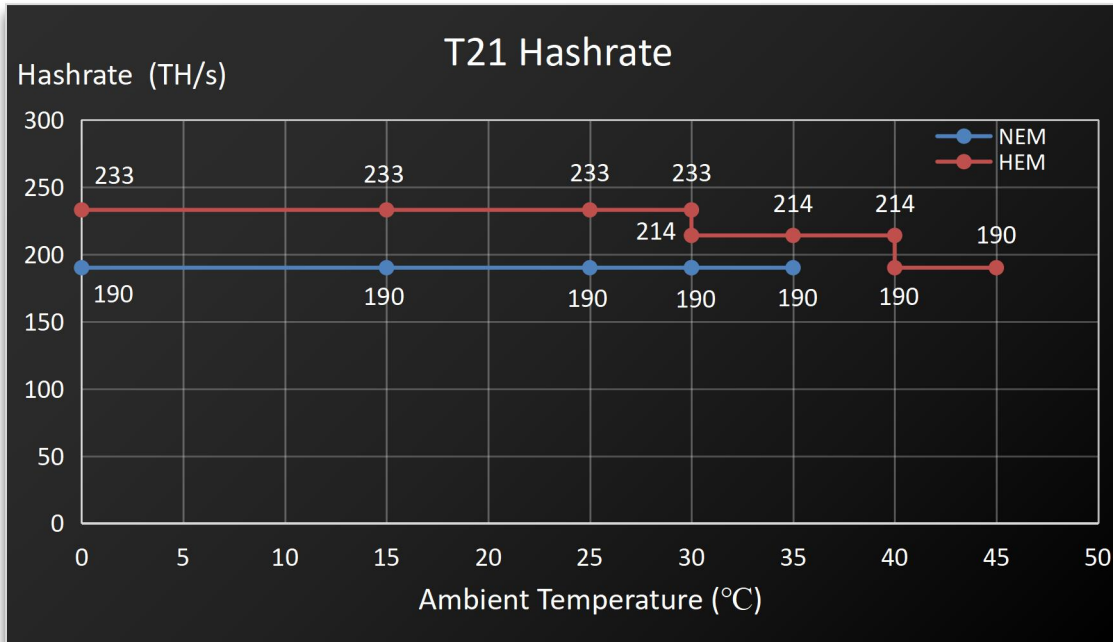| Working mode	NEM[3-1]	HEM[3-2]		
Operation temperature, °C	0~35	0~30	30~40	40~45
Hashrate, TH/s	190	233	214	190
Power on wall, Watt	3610	5126	4708	4180
Power efficiency on wall, J/TH	19.0	22.0	22.0	22.0

Notes:

(3-1) NEM: Normal Energy Mode
(3-2) HEM: High Energy Mode

3. Performance Curve

(1) Hashrate vs. Ambient Temperature

T21 Hashrate

Hashrate (TH/s)

NEM
HEM

233 233 233 233
214 214
190
214
190 190 190 190 190 190

Ambient Temperature (℃)

(2) J/T vs. Ambient Temperature

T21 J/T

J/T

NEM
HEM

22.0 22.0 22.0 22.0 22.0 22.0 22.0
19.0 19.0 19.0 19.0 19.0

Ambient Temperature (℃)