# Error Code Description

| Error code | Reason | processing method |
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| 110 | Fanin detect speed error | Check whether the fan connection is normal, or Replace the power supply supply, or replace the fan |
| 111 | Fanout detect speed error | Check whether the fan connection is normal, or Replace the power supply supply, or replace the fan |
| 120 | Fanin speed error (Deviation 2000+) | Check whether the fan connection is normal, or Replace the power supply supply, or replace the fan |
| 121 | Fanout speed error (Deviation 2000+) | Check whether the fan connection is normal, or Replace the power supply supply, or replace the fan |
| 130 | Fanin speed error (Deviation 3000+) | Check whether the fan connection is normal, or Replace the power supply supply, or replace the fan |
| 131 | Fanout speed error (Deviation 3000+) | Check whether the fan connection is normal, or Replace the power supply supply, or replace the fan |
| 140 | Fan speed is too high | Please check the environment temperature |
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| 200 | Power probing error, no power found | Detecting power output wiring, updating the latest firmware, or replacing power supply |
| 201 | Power supply and configuration file mismatch | Replace the correct power supply |
| 202 | Power output voltage error | Upgrade the latest firmware or check the power supply |
| 203 | Power protecting | Please check the environment temperature |
| 204 | Power current protecting | Please check the environment temperature |
| 205 | Power current error | Inspection of power supply in power grid |
| 206 | Power input voltage is low | Improve power supply conditions and input voltage |
| 207 | Power input current protecting | Improve power supply conditions and input voltage |
| 208 | Power supply changes too much | Replace the power supply |
| 209 | The deviation value between the power supply setting voltage and the actual voltage suddenly changes. | Replace the power supply |
| 210 | Power error status | Check power failure code |
| 211 | Power output current deviation is too large | Replace the power supply |
| 213 | Power input voltage and current do not match the power | Replace the power supply |
| 216 | Power remained unchanged for a long time | Replace the power supply |
| 217 | Power set enable error | Replace the power supply |
| 218 | Power input voltage is lower than 230V for high power mode | Increase input voltage, replace power supply |
| 219 | Power input current is incorrect | Replace the power supply |
| 233 | Power output over temperature protection | Please check the environment temperature |
| 234 | Power output over temperature protection | Please check the environment temperature |
| 235 | Power output over temperature protection | Please check the environment temperature |
| 236 | Overcurrent Protection of Power Output | Please check the environment temperature, check copper row screw |
| 237 | Overcurrent Protection of Power Output | Please check the environment temperature, check copper row screw |
| 238 | Overcurrent Protection of Power Output | Please check the environment temperature, check copper row screw |
| 239 | Overvoltage Protection of Power Output | Inspection of power supply in power grid |
| 240 | Low Voltage Protection for Power Output | Inspection of power supply in power grid |
| 241 | Power output current imbalance | Replace the power supply |
| 243 | Over-temperature Protection for Power Input | Please check the environment temperature |
| 244 | Over-temperature Protection for Power Input | Please check the environment temperature |
| 245 | Over-temperature Protection for Power Input | Please check the environment temperature |
| 246 | Overcurrent Protection for Power Input | Please check the environment temperature |
| 247 | Overcurrent Protection for Power Input | Please check the environment temperature |

| 248 | Overvoltage Protection for Power Input | Inspection of power supply in power grid |
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| 249 | Overvoltage Protection for Power Input | Inspection of power supply in power grid |
| 250 | Undervoltage Protection for Power Input | Inspection of power supply in power grid |
| 251 | Undervoltage Protection for Power Input | Inspection of power supply in power grid |
| 253 | Power Fan Error | Replace the power supply |
| 254 | Power Fan Error | Replace the power supply |
| 255 | Protection of over power output | Please check the environment temperature |
| 256 | Protection of over power output | Please check the environment temperature |
| 257 | Input over current protection of power supply primary side | Try to power off and restart, no effect to Replace the power supply supply |
| 258 | Power input three-phase voltage imbalance warning | Inspection of power supply in power grid |
| 259 | Power input three-phase voltage unbalance protection | Inspection of power supply in power grid |
| 263 | Power communication warning | Check whether the screws of the control board are locked |
| 264 | Power communication error | Check whether the screws of the control board are locked |
| 267 | Power watchdog protection | Contact the technician in time |
| 268 | Power output over-current protection | Check the ambient temperature, check the copper bar screw |
| 269 | Power input over-current protection | Improve power supply conditions and input voltage |
| 270 | Power input over-voltage protection | Inspection of power supply in power grid |
| 271 | Power input under-voltage protection | Inspection of power supply in power grid |
| 272 | Warning of excessive power output of power supply | Please check the environment temperature |
| 273 | Power input power too high warning | Please check the environment temperature |
| 274 | Power fan warning | Check if the power fan is blocked and may need to be replaced |
| 275 | Power over temperature warning | Please check the environment temperature |
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| 300 | SM0 temperature sensor detection error | Check the connection of the hashboard |
| 301 | SM1 temperature sensor detection error | Check the connection of the hashboard |
| 302 | SM2 temperature sensor detection error | Check the connection of the hashboard |
| 309 | All temperature sensor detection errors | Check the connection of the hashboard |
| 320 | SM0 temperature reading error | Check whether the control board screw is locked properly, check the connection board and the arrangement contact |
| 321 | SM1 temperature reading error | Check whether the control board screw is locked properly, check the connection board and the arrangement contact |
| 322 | SM2 temperature reading error | Check whether the control board screw is locked properly, check the connection board and the arrangement contact |
| 326 | Liquid cooling temperature sensor communication error | Replace the power supply |
| 329 | Control board temperature sensor communication error | Replace the power supply |
| 350 | SM0 temperature protecting | Please check the environment temperature |
| 351 | SM1 temperature protecting | Please check the environment temperature |
| 352 | SM2 temperature protecting | Please check the environment temperature |
| 360 | The temperature of the hashboard is | Please check the environment temperature |
| 370 | The environment temperature fluctuates too much | Check theenvironment temperature, or check the environment wind direction and wind speed |
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| 410 | SM0 detect eeprom error | Check adapter board and wiring contact |
| 411 | SM1 detect eeprom error | Check adapter board and wiring contact |
| 412 | SM2 detect eeprom error | Check adapter board and wiring contact |
| 420 | SM0 parser eeprom error | Upgrade firmware |

| 421 | SM1 parser eeprom error | Upgrade firmware |
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| 422 | SM2 parser eeprom error | Upgrade firmware |
| 430 | SM0 chip bin type error | Upgrade firmware |
| 431 | SM1 chip bin type error | Upgrade firmware |
| 432 | SM2 chip bin type error | Upgrade firmware |
| 440 | SM0 eeprom chip num  X error | Upgrade firmware |
| 441 | SM1 eeprom chip num  X error | Upgrade firmware |
| 442 | SM2 eeprom chip num  X error | Upgrade firmware |
| 450 | SM0 eeprom xfer error | Check adapter board and wiring contact.Upgrade firmware |
| 451 | SM1 eeprom xfer error | Check adapter board and wiring contact.Upgrade firmware |
| 452 | SM2 eeprom xfer error | Check adapter board and wiring contact.Upgrade firmware |
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| 500 | No software configuration is added for the model | Upgrade firmware |
| 510 | SM0 miner type error | The version and type of hashboard are inconsistent, replace the correct hashboard |
| 511 | SM1 miner type error | The version and type of hashboard are inconsistent, replace the correct hashboard |
| 512 | SM2 miner type error | The version and type of hashboard are inconsistent, replace the correct hashboard |
| 530 | SM0 not found | Check the connection and arrangement of the adapter board, or replace the control board, check whether the hash board connector is empty welded |
| 520 | SM0 bin type error | The chip type of the hashrate board is inconsistent, replace the correct hashrate board |
| 521 | SM1 bin type error | The chip type of the hashrate board is inconsistent, replace the correct hashrate board |
| 522 | SM2 bin type error | The chip type of the hashrate board is inconsistent, replace the correct hashrate board |
| 531 | SM1 not found | Check the connection and arrangement of the adapter board, or replace the control board, check whether the hash board connector is empty welded |
| 532 | SM2 not found | Check the connection and arrangement of the adapter board, or replace the control board, check whether the hash board connector is empty welded |
| 540 | SM0 reading chip id error | Check adapter board and wiring contact, Clean the dust on the hashboard |
| 541 | SM1 reading chip id error | Check adapter board and wiring contact, Clean the dust on the hashboard |
| 542 | SM2 reading chip id error | Check adapter board and wiring contact, Clean the dust on the hashboard |
| 560 | SM0 loss balance | Plug in the adapter plate, and then screw in the power connection hashboard again |
| 561 | SM1 loss balance | Plug in the adapter plate, and then screw in the power connection hashboard again |
| 562 | SM2 loss balance | Plug in the adapter plate, and then screw in the power connection hashboard again |
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| 600 | Environment temperature is high | Please check the environment temperature |
| 610 | If the ambient temperature is too high in high performance mode, return to normal mode | Check the ambient temperature, high performance mode needs to be controlled below 30 ℃ |
| 620 | Liquid cooling liquid temperature protection | Check liquid temperature |
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| 701 | Control board no support chip | Upgrade the corresponding type of firmware |
| 710 | Control board rebooted as exception | Updating the latest firmware.Check whether the control board screw is locked properly |
| 712 | Control board rebooted as exception | Updating the latest firmware.Check whether the control board screw is locked properly |
| 714 | The network connection is seriously unstable | Check the network cable connection or replace the control board |

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| 720 | SM0 serial port communication error | Upgrade firmware or replace control board |
| 721 | SM1 serial port communication error | Upgrade firmware or replace control board |
| 722 | SM2 serial port communication error | Upgrade firmware or replace control board |
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| 800 | Cgminer checksum error | Re upgrade firmware |
| 801 | System-monitor checksum error | Re upgrade firmware |
| 802 | Remote-daemon checksum error | Re upgrade firmware |
| 810 | Air to liquid PCBSN does not match | Re upgrade the liquid cooling firmware |
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| 2000 | No pool information configured | Check pool configuration |
| 2010 | All pools are disable | Please check the network or pools configure |
| 2020 | Pool0 connect failed | Please check the network or pools configure |
| 2021 | Pool1 connect failed | Please check the network or pools configure |
| 2022 | Pool2 connect failed | Please check the network or pools configure |
| 2030 | High rejection rate of pool | Please check the network or pools configure.Setting of mining currency |
| 2040 | The pool does not support the asicboost mode | Check pool configuration |
| 2050 | Failed to switch to a new pool. | Please check the network or pools configure |
| 2310 | Hash rate is too low | Check input voltage, network environment, and ambient temperature |
| 2320 | Hash rate is too low | Check input voltage, network environment, and ambient temperature |
| 2340 | The loss of hash rate is too high | Check input voltage, network environment, and ambient temperature |
| 2350 | The loss of hash rate is too high | Check input voltage, network environment, and ambient temperature |
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| 5030 | The maximum and minimum temperature difference of the SM0 chip is too large | Check the heat dissipation of the miner |
| 5031 | The maximum and minimum temperature difference of the SM1 chip is too large | Check the heat dissipation of the miner |
| 5032 | The maximum and minimum temperature difference of the SM2 chip is too large | Check the heat dissipation of the miner |
| 5040 | SM0 temperature maximum chip temperature difference is too large | Check the heat dissipation of the miner |
| 5041 | SM1 temperature maximum chip temperature difference is too large | Check the heat dissipation of the miner |
| 5042 | SM2 temperature maximum chip temperature difference is too large | Check the heat dissipation of the miner |
| 5050 | SM0 chip temperature protection | Please check the environment temperature |
| 5051 | SM1 chip temperature protection | Please check the environment temperature |
| 5052 | SM2 chip temperature protection | Please check the environment temperature |
| 5070 | SM0 liquid velocity is abnormal | Check if the liquid flow is normal |
| 5071 | SM1 liquid velocity is abnormal | Check if the liquid flow is normal |
| 5072 | SM2 liquid velocity is abnormal | Check if the liquid flow is normal |
| 5073 | SM3 liquid velocity is abnormal | Check if the liquid flow is normal |
| 5080 | SM0 chip temperature calibration failed | Reset |
| 5081 | SM1 chip temperature calibration failed | Reset |
| 5082 | SM2 chip temperature calibration failed | Reset |
| 5083 | SM3 chip temperature calibration failed | Reset |
| 5090 | Chip temperature calibration abnormality | Try to stop the machine for a while and then restart it, or restore the factory settings, or check the heat dissipation of the hash board. |
| 5110 | SM0 Frequency Up Timeout | Reboot |
| 5111 | SM1 Frequency Up Timeout | Reboot |
| 5112 | SM2 Frequency Up Timeout | Reboot |
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| 8000 | WhatsminerTool version is too low | Download the latest WhatsminerTool |
| 8010 | Frequency is not up to standard | Upgrade the latest software or reset |
| 8020 | hashrate is not up to standard | Upgrade the latest software or reset |
| 8400 | Wrong software version (older or not the official version) | Upgrade to the correct software version |
| 8410 | Wrong software version (M2x mining rig uses M3x firmware, or M3x uses M2x firmware) | Upgrade to the correct software version |
| 8700 | Minere and power supply model do not match | Replace the correct power supply |
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| 100001 | /antiv/signature Illegal | Upgrade the latest firmware or burn the card |
| 100002 | /antiv/dig/initd.dig Illegal | Upgrade the latest firmware or burn the card |
| 100003 | /antiv/dig/pf_partial.dig Illegal | Upgrade the latest firmware or burn the card |
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| PSU Error | Reason | processing method |
| 0x0001 | Input voltage is too low,need improvement | Check the power supply |
| 0x0002 | Temperature sampling over temperature protection of power radiator | Power on again after 10 minutes of power failure. If it occurs again, Replace the power supply supply |
| 0x0004 | Temperature sampling over temperature protection of power radiator | Power on again after 10 minutes of power failure. If it occurs again, Replace the power supply supply |
| 0x0008 | Over temperature protection of environmental temperature sampling in power supply | Power on again after 10 minutes of power failure. If it occurs again, Replace the power supply supply |
| 0x0010 | Primary side over current | Power on again after 10 minutes of power failure. If it occurs again, Replace the power supply supply |
| 0x0020 | Output undervoltage | Check the power supply |
| 0x0040 | Output over current (continuous load 320A for more than 2S) | Tighten the copper bar screw again |
| 0x0080 | Primary side over current | Power on again after 10 minutes of power failure. If it occurs again, Replace the power supply supply |
| 0x0100 | Single circuit overcurrent (protection point 120a) | Check the power supply |
| 0x0200 | Single circuit overcurrent (protection point 120a) | Check the power supply |
| 0x0400 | Single circuit overcurrent (protection point 120a) | Check the power supply |
| 0x0800 | Fan failure | Replace the power supply supply |
| 0x1000 | Output over current (continuous load of 310A for more than 5min) | Check the power supply |
| 0x2000 | Output over current (continuous load 295A for more than 10min) | Check the power supply |