GLOSSARY OF TECHNICAL TERMS

> *This glossary contains explanations of certain technical terms used in this document in connection with our Company and its business. Such terminology and meanings may not correspond to standard industry meanings or usages of those terms.*

"AI"	artificial intelligence, simulated intelligence in machines programmed to perform tasks normally requiring human intelligence
"Antminer D3"	mining hardware with 180 BM1760 chips developed by us
"Antminer E3"	mining hardware with 18 BM1790 chips developed by us
"Antminer L3"	mining hardware with 144 BM1485 chips developed by us
"Antminer L3+"	mining hardware with 288 BM1485 chips developed by us
"Antminer S4+"	mining hardware with 204 BM1382 chips developed by us
"Antminer S5"	mining hardware with 60 BM1384 chips developed by us
"Antminer S5+"	mining hardware with 432 BM1384 chips developed by us
"Antminer S7"	mining hardware with 135 BM1385 chips developed by us
"Antminer T9"	mining hardware with 171 BM1387 chips developed by us
"Antminer T9+"	mining hardware with 162 BM1387 chips developed by us
"Antminer S9"	mining hardware with 189 BM1387 chips developed by us
"Antminer S9 Hydro"	mining hardware with 216 BM1387 chips developed by us
"Antminer Z9"	mining hardware with 48 BM1740 chips developed by us

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"Antminer Z9 mini"	mining hardware with 12 BM1740 chips developed by our Group
"Antpool"	a cryptocurrency mining pool operated by our Group
"ASIC chips"	application-specific ICs, meaning ICs designed for a specific application
"back-end of ASIC chip design"	back-end application-specific integrated circuit design, including floor plan, place & route and IP merge, backend verification and shuttle test chip (if needed)
"Bitcoin" or "BTC"	the first cryptocurrency created and managed using blockchain technology
"Bitcoin Cash"	a type of cryptocurrency
"blockchain"	a decentralized, peer-to-peer network where transactions are verified by nodes in the network and recorded in the distributed ledger
"BM1382"	a 28nm ASIC chip developed by our Group
"BM1384"	a 28nm ASIC chip developed by our Group
"BM1385"	a 28nm ASIC chip developed by our Group
"BM1387"	a 16nm ASIC chip developed by our Group
"BM1485"	a 28nm ASIC chip developed by our Group
"BM1680"	a 28nm AI ASIC chip developed by our Group
"BM1682"	a 28nm AI ASIC chip developed by our Group
"BM1684"	a 12nm AI ASIC chip developed by our Group
"BM1740"	a 10nm ASIC chip developed by our Group
"BM1760"	a 28nm ASIC chip developed by our Group
"BM1790"	a 28nm ASIC chip developed by our Group
"BTC.com"	a cryptocurrency mining pool operated by our Group

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"CAGR"	compound annual growth rate
"cloud computing"	the delivery of computing services over the Internet, including servers, storage, databases, networking, software and analytics
"cloud inference"	the application system of cloud model and logical rules to deduce new information over the Internet
"cloud training"	the application system of cloud model and logical rules to train the AI model through analyzing massive amount of data
"computing power"	the amount of power a device has to conduct computing tasks; it determines how quickly a blockchain processing unit can process a transaction and can be measured in terms of hashrate
"CPU"	computing processing unit
"cryptocurrency"	a digital currency in which encryption techniques are used to regulate the generation of units of currency and verify the transfer of funds
"customer"	a registered user account that has made at least one purchase of product or service with us (each account is treated as a separate customer for the purpose of calculating the number of our customers)
"Dash"	a type of cryptocurrency
"Engineering Change Order"	a documentation that defines a proposed change in design and specification of the product and requests approvals from all the stakeholders involved
"EOS"	a type of cryptocurrency
"ERP System"	enterprise resource planning system
"Ether"	a type of cryptocurrency whose blockchain is generated by the Ethereum platform
"fabless IC(s)"	IC(s) designed and marketed by one company but manufactured by another

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"FPGA(s)"	field-programmable gate array(s), the IC(s) designed to be configured by a customer or a designer after manufacturing
"foundry" or "wafer foundry"	in the context of microelectronics industry, a semiconductor fabrication plant where devices such as ICs or semiconductor materials such as wafers are manufactured
"front-end ASIC chip design"	front-end application-specific integrated circuit design, including marketing specifications, project evaluation, algorithm design, logic design and verification
"GFA"	gross floor area
"GH/s"	gigahash per second, a unit to measure hashrate; giga is a prefix for 1,000,000,000
"GPU"	graphics processing unit
"hashrate"	the measuring unit of the processing power of the cryptocurrency network and represents the number of computations that is processed by the network in a given time period
"IC(s)" or "Chip(s)"	integrated circuits
"IoT"	Internet of Things, a computing concept that refers to the connection of devices to the Internet
"Ksol/s"	thousand solutions per second, calculating the number of computations created per second in cryptocurrency mining
"Litecoin"	a type of cryptocurrency
"MH/s"	Megahash per second, a unit to measure hashrate; mega is a prefix for 1,000,000
"miner"	a participant in a cryptocurrency blockchain who provides computing power to receive cryptocurrency as reward

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"mining"	the process where network members in a cryptocurrency blockchain provide computing power and receive certain amount of cryptocurrency as reward
"mining difficulty"	the complexity of the task that miners need to solve to create the block and mine certain cryptocurrencies, including Bitcoin and Bitcoin Cash, which is determined by the hashrate of the network
"NLP"	natural language processing, an area of computer science and AI concerned with the interactions between computers and human (natural) languages
"nm"	nanometer, a unit of length in the metric system, equal to 0.000000001 meter
"OSAT Company(ies)"	outsourced semiconductor assembly and test companies, the company that provides third-party IC packaging and testing services
"PCB"	printed circuit board, a base for mounting microelectronic components in electronics
"PH/s"	Petahash per second, a unit to measure hashrate; peta is a prefix for 1,000,000,000,000,000
"photomask"	an opaque plate with holes or transactions that allow light to shine through in a defined patter
"silicon wafer"	a thin and round piece of silicon essential for the formation of ICs
"Sophon"	the brand of our AI products and services
"tape-out" or "tape out"	the final phase of the design process for an IC before the manufacturing phase
"TH/s"	Terahash per second, a unit to measure hashrate; tera is a prefix for 1,000,000,000,000
"W/(GH/s)"	watts per GH/s, calculating how much energy is required for per hashrate

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"W/(Ksol/s)"	watts per Ksol/s, calculating how much energy is required for per solution rate
"W/(MH/s)"	watts per MH/s, calculating how much energy is required for per hashrate
"XRP"	a type of cryptocurrency
"Zcash"	a type of cryptocurrency