

GLOSSARY OF TECHNICAL TERMS

The following is a glossary of certain terms used in this document in connection with us and/or our business. The terms and their meanings may not correspond to standard industry meaning or usage of these terms.

“5G”	the 5th generation mobile network, a new global wireless standard after 1G, 2G, 3G, and 4G networks
“8K”	a resolution format of pixel dimensions of 7,680 x 4,320
“AI”	artificial intelligence, an area of computer science that focuses on simulating human intelligence by machines
“AIGC”	AI generated content
“all-in-one server”	server procured for customers, typically private cloud customers, which have been configured and implemented with the Group’s proprietary software and audiovisual solutions
“Android”	an operating system developed and maintained by Google Inc. which is used in touchscreen technology including smartphones and tablets
“APaaS”	application platform as a service
“API”	application programming interface, a computer programming approach for facilitating exchange of information and executing instructions between different computer systems
“app”	mobile application
“AR”	augmented reality, an interactive experience of a real-world environment where the objects that reside in the real world are enhanced by computer-generated perceptual information
“architecture”	the structure under which an information system’s hardware, software, data and communication capabilities are put together
“BERT”	Bidirectional Encoder Representations from Transformers, a machine learning technique for natural language processing
“CAGR”	compound annual growth rate
“CDN”	content delivery network, geographically distributed network of proxy servers and their data centers
“centralized storage”	storage of data in large centralized data centres

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“cloud”	a network of remote servers hosted on the Internet and used to store, manage, process data, and offer algorithms in place of local servers or personal computers
“cloud edge resource scheduling platform”	a one-stop resource scheduling platform at cloud edge which consolidates the monitoring and scheduling QCDN, object storage and computing resources
“convolutional neural network”	a class of deep neural networks, most commonly applied to analyzing visual imagery
“deep learning”	a machine learning technique that constructs artificial neural networks with multiple layers to extract features from the raw input
“Diffusion”	deep generative models that work by adding noise to the available training data and then reversing the process to recover the data
“DPaaS”	data platform as a service
“EB”	exabyte, which is approximately 1,000,000,000 gigabytes
“edge”	hardware or services that brings computation and data storage closer to where the data is produced
“edge storage”	storage of data close to its source or the end-user devices
“erasure code”	one of the methods of data protection through which data is broken into sectors, which are then expanded and encoded with redundant data pieces and stored across different storage media, thus adding redundancy to the system that tolerates failures
“GAN”	generative adversarial network, a machine learning model in which two neural networks compete with each other by using deep learning methods to become more accurate in their predictions
“GPT”	Generative Pre-trained Transformer, a type of artificial intelligence language model
“GPU”	graphic processing unit
“GRU”	gated recurrent units, a gating mechanism in recurrent neural networks

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“HD”	high definition
“HLS”	HTTP live streaming
“IaaS”	infrastructure as a service, a form of cloud computing that provides virtualized computing resources over the Internet
“IDC”	Internet data center
“iOS”	a mobile operating system developed and maintained by Apple Inc. used exclusively in Apple touchscreen technology including iPhones, iPods and iPads
“IoT”	internet of things, which refers to the internet working of physical devices, smart devices, and other items embedded with electronics, sensors, actuators, and network connectivity which enable these devices or items to collect and exchange data
“large language model”	a deep learning algorithm that can recognize, summarize, translate, predict and generate text and other forms of content based on knowledge gained from massive datasets
“latency”	an expression of the amount of time required for data to transfer from one point to another
“LLaMA”	a large language model developed by Meta AI
“low code”	an approach of building applications through a visual user interaction interface with minimal hand coding
“Mbps”	megabits per second
“metaverse”	the convergence of physical, augmented, and virtual reality in a shared online space
“MPaaS”	media platform as a service
“NeRF”	Neural Radiance Fields, can be used to generate realistic-looking images from low-resolution inputs and to detect objects in images
“OCR”	optical character recognition
“OKR”	Objectives and Key Results, a collaborative goal-setting methodology used by teams and individuals to set challenging, ambitious goals with measurable results

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“open source”	a source code that is made freely available for possible modification and redistribution
“PaaS”	platform as a service, a category of cloud computing services that provides a platform and environment to allow developers to build applications over the Internet
“PaLM”	Pathways Language Model, a large language model developed by Google Inc.
“PC”	personal computer
“Pili”	Qiniu’s proprietary live video cloud
“pro code”	a development platform designed for professional developers, aiming to support them in creating, deploying, and managing applications using advanced programming languages and tools
“QoE”	Qiniu’s proprietary audiovisual quality evaluation system
“QRTC”	Qiniu’s proprietary real-time communication
“QVM”	Qiniu virtual machine
“R&D”	research and development
“redundancy rate”	redundancy rate for erasure coding measures how much redundant data pieces are required to recover failed original data
“RTC”	real-time communication
“SaaS”	software as a service, a software licensing and delivery model in which software is licensed on a subscription basis and is centrally hosted
“SDK”	software development kit, a set of software development tools in one installable package that can be used to create and develop applications
“SME”	small and medium enterprises
“Transformer”	a neural network that learns context and thus meaning by tracking relationships in sequential data like the words in this sentence
“UHD”	ultra high definition

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“UI”	user interface
“Vlog”	video log
“VoD”	video on demand
“VR”	virtual reality, the computer generated simulation of a three-dimensional image or environment that can be interacted with in a seemingly real or physical way
“zero code”	an approach of building applications through various user interactions that require no coding input