

GLOSSARY OF TECHNICAL TERMS

This glossary contains explanations of certain terms used in this document in connection with our Company and our business. The terminology contained in this glossary and their given meanings may not correspond to standard industry meaning or usage of these terms.

“3D printing”	three-dimensional printing
“ADC”	analogue-to-digital converter, a device that converts continuous analogue signals into discrete digital signals
“AC/DC”	alternating current/direct current coupling, a configuration option in signal acquisition systems that determines how input signals are processed
“AI”	artificial intelligence
“BMS”	battery management system, a system designed to monitor, control and protect batteries
“CANFD”	controller area network flexible data rate
“CES”	Consumer Electronics Show, one of the world’s largest and most influential technology trade shows, held annually in the United States
“CNC”	computer numerical control
“CRM system”	customer relationship management system, an information system for collecting, managing, and analysing customer data using software, hardware, and network technologies
“C2M”	customer-to-machine
“C-end users”	customer-end users
“DAQ”	data acquisition system, a hardware and software architecture used to collect, measure, and analyze physical signals such as voltage, current, temperature, strain, vibration, and sound
“dB”	decibel, which is a logarithmic unit used to measure sound level
“dBA”	decibel A-weighted, a unit of measurement used to express sound levels in a way that reflects the human ear’s sensitivity
“DC”	direct current, a type of electrical current that flows in one direction only
“DFU”	device firmware upgrade
“EDM”	electrical discharge machining

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“EDU”	electric drive units
“EMC”	electromagnetic compatibility, the ability of electrical and electronic equipment to operate without causing or being affected by unwanted electromagnetic interference
“EOL”	end-of-line testing
“Ethernet”	a widely used networking technology for local area networks, enabling high-speed data communication between devices using standardised protocols and physical connections such as cables and switches
“ERP system”	enterprise resource planning system, an information technology system integrating internal and external information such as accounting, financial information, human resources management, inventory management and warehouse management to facilitate automation of business operations
“FCT”	functional circuit test
“fps”	frames per second, a unit that measures how many individual frames (images) are displayed or captured per second in a video stream
“G-code”	a programming language used to control machines like CNC machines and 3D printers
“GFA”	gross floor area
“GHG Emissions”	greenhouse gas emissions
“GNSS”	global navigation satellite system
“GRR”	gauge repeatability and reproducibility
“HD”	high definition
“IEPE”	Integrated Electronics Piezo-Electric, which characterises a technical standard for piezoelectric sensors which contain built-in impedance conversion electronics
“IMU”	inertial measurement unit
“I/O”	input/output
“IoT”	Internet of Things
“ISO”	acronym for International Organisation for Standardisation, a series of international standards, including quality management and quality assurance standards published by the Universal Certification Services Co., Ltd., a non-government organisation for assessing the quality system of business organisations

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“LBS”	location-based services, a set of technologies and applications that use geographic location data from devices (such as GPS, Wi-Fi, or cellular networks) to deliver personalised, context-aware digital content and services
“LIMS system”	laboratory information management system, an information system that is used to enhance the automation and management level of quality control procedures
“LVDS”	low-voltage differential signaling
“MES”	manufacturing execution system, an information system that monitors, tracks, and controls manufacturing operations on the shop floor
“MCM Suite”	measurement and control module suite, a comprehensive software platform designed for high-precision testing and analysis of vibration, noise, and stress performance
“MCP”	model context protocol, an open communication protocol designed to enable secure and standardised interaction between software agents and external hardware devices or systems
“MCU”	microcontroller unit, a compact integrated circuit that contains a processor, memory, and input/output peripherals
“MP”	megapixel, a unit of image resolution equal to one million pixels
“NLP”	natural language processing
“NVH”	noise, vibration, harshness, a comprehensive metric for evaluating automotive product quality. These three indicators encompass the most directly perceptible issues experienced by users during vehicle operation
“NFC”	near field communication, a short-range wireless communication technology that enables data exchange between devices
“OBC”	on-board charger, a power electronics device for electric vehicle batteries on EVs, which converts alternating current (AC) power from external sources, such as residential outlets, into DC power to charge the vehicle’s battery pack
“ODM”	original design manufacturing, a type of manufacturing under which a manufacturer independently designs and provides finished product equipment and services for contract manufacturing
“OEE”	overall equipment effectiveness

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“PCB”	printed circuit board, a board base for physically supporting and wiring the surface-mounted and socketed components in most electronics
“PCBA”	printed circuit board assembly, a printed circuit board populated with electronic components
“PDM”	pulse density modulation, a form of modulation used primarily in digital audio applications to convey analog signals
“PLC”	programmable logic controller, an industrial digital computer designed for automation of electromechanical processes
“POC”	power over cable, a technology that allows electrical power to be transmitted along with data over a single cable, reducing wiring complexity
“PLM system”	product lifecycle management system, an information system that integrates personnel, processes, applications, and information for end-to-end product lifecycle management
“R&D”	research and development
“RF”	radio-frequency, high-frequency alternating electromagnetic waves
“SMD”	surface-mount device, electronic components designed to be mounted directly onto the surface of PCBs
“SMT”	surface mounting technology, a method for directly mounting electronic components onto the surface of PCB
“SoC”	system on chip
“SRM system”	supplier relationship management system, an information system used by procurement personnel to manage suppliers, enabling enterprises to establish long-term, close business relationships with suppliers
“TCP/IP”	transmission control protocol/internet protocol, a foundational set of communication protocols used for transmitting data over networks
“TMC”	testing, measurement and control
“UPH”	units per hour
“UV”	ultraviolet curing technology, a process that uses ultraviolet light to rapidly cure or dry inks, coatings, adhesives, or resins

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“ $\mu\epsilon$ ”

microstrain, a unit commonly used in material testing to indicate the degree of deformation a material experience under applied force