

DTDS

**Marubeni
Group**

Determination
Teamwork
Diligence
Sense of Urgency

Consumer



Space & Defense



Industrials



IoT



Automotive



Telecom

Mission

DTDS strives to be a competent and reliable one-stop solution provider to our partners in the Electronics industry by integrating technical and product expertise in all phases of their product development.

Vision

To bring a portfolio of quality brands that fulfils our partners' expectation while nurturing a winning network of customers and suppliers.

Values

Values serve as a compass for the organization and our Management is devoted to provide leadership with values by guiding the direction of our organisation growth.

ACTIVE COMPONENTS



Microcontrollers, Microprocessors, Analog Products, Automotive Products, clock & Timing, Interface, Memory, & Logic, Power Discrete, power Management, LED Drivers, Programmable Logics, Sensor Product, HiREL Products, Wifi, BLE and wireless products



Power Management, Power Module, Battery Management, Isolation, Motor Drivers & Controllers, Inductors, LED Drivers, Class D Audio, Analog, Data Convertor, Sensor, AC-DC, DC-DC Convertors



LoRa wireless RF, Circuit Protection, Signal Integrity, Professional AV, Capacitive Sensing, Broadcast Video, Power Management, Cellular IoT Solutions



Sub 8 Ghz - RF Power Amplifier, Variable Gain Amplifiers, RF Attenuators, RF Switch, RF Mixers, Modulators & Demodulators Beam forming IC, Updown Convertor for 5G mmWave, Beam forming IC for Satcom / Radar



AC/DC, DC-DC PD Charger Solutions, MOSFET, Digital Power



DWDM and Coherent Optical, Datacom, Transceivers, Optical Amplifier, Passive components and Modules, Pump Laser, Source laser and Photodiodes



Ultra -Low Power & Fully Programmable AI Processor Edge devices unlocking significant cloud saving, near zero latency and enhanced user data privacy



Image Sensor, ASIC, Camera Cube Chip, LCOS, Display Solutions, Power Management IC



eMMC, eUFS, SSDs, USB Drives, MicroSD Cards



EPROM, NOR FLASH, VCM Driver, Smart Card



Memory - SDRAM IC, DIMM & SLC NAND Flash IC



LoRa Modules, Smart Lighting, Water Meter, IRIS Solution



Mosfets, Transistors, Bridge Rectifier, Recovery Diodes, Schottky Diodes, TVS Diodes, SiC diodes



SMD LEDs, Isolators, Optocouplers, Solid State relays, 7 Segment LED Display, Power Supply units, Sensors, ALS+Proximity sensors, Opto Emitters, ADAS Soln



Power Mosfets, Diodes, Power Modules, DC DC Converter, Connectivity modules



Humidity Sensors Temperature Sensors, Weather Stations (3 in 1), Differential Pressure Sensors Particulate Matter Sensors Ultrasound Sensor Arrays



SiC Mosfets, SiC Diodes, Planar Mosfets, IGBT



5G Smart Module, 5G Module AI Computing Module, 4G LTE Module Automotive Module, Smart Module LPWA Module, GNSS Module



GPS 4G, 5G Modules



LDO, Supervisor and Reset IC Audio Products, Amplifier, Schottky Diode, Analog Switch, LED Driver, Magnetic Sensor, PMIC



VaultIC Secure Element, Post Quantum RISC V Chips, Secure Arm Platforms, Smart Card Reader Chips, ASIC



MOSFET, IGBT, SiC SBD, DrMOS & SPS, DC DC Convertors, Integrated Current Sensor, Hall Elements



Mosfets, Diodes, Rectifiers



IR LED, Headlamp & Turn Signal Lamp Rear Combination Lamp, Interior Lamps



IGTO(t) the first new high-voltage silicon power switch



DisplayPort Converter, HDMI Converter, LVDS Converters TTL Converter, Multi-Standard Display Interface Converter CEC Controller














Crystals, Oscillators, TCXO, VCXO, Antenna, Buzzers, Speakers, SAW Filters



Crystals, VCXO, Quartz Crystal, Timing Module, OCXO, QCM






PASSIVE COMPONENTS

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|---|---|--|---|
|  <p>Thin film surface mount resistors, Current sensing surface mount resistors, High frequency surface mount components</p> |  <p>Capacitors- Audio, Plastic, Aluminium Electrolytic, SMD Aluminum Electrolytic, Polymer Aluminium Solid Electrolytic, Ceramic, Motor, Tantalum, Super and SMD Timmer Capacitors</p> |  <p>Electrolytic Capacitors, Super Capacitors, Flim Capacitors</p> |  <p>Electrolytic Capacitors, Hybrid Polymer Capacitors, Inductors, MOV's, Super Capacitors, MLCC</p> |
|  <p>MLCC, Hybrid Capacitors, Power Inductors, Ferrite Beads</p> |  <p>Automotive Chip Resistor, Current Sense Resistor, Multitone buzzer</p> |  <p>Chip Inductors, -RF & Power Common Mode Filter</p> |  <p>TVS Diode, Mosfet, IC, Power Module</p> |
|  <p>Current sense Resistor</p> |  <p>Current sense Resistor, Potentiometer, Chip Resistor</p> |  <p>Thick and Thin film Chip Resistors, Inductors, NTC, MLCC, Power Resistor</p> |  <p>RF absorbers, EMI Shielding, Inductors, Thermal Interface Material, Gaskets</p> |

ELECTRO-MECHANICAL COMPONENTS

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|---|--|---|---|
|  <p>Programmable DC Power Supply, AC-DC Power Supply, DC DC Convertors, Filters</p> |  <p>Board to Board connector, Board to cable Connector, Socket & Battery Connectors</p> |  <p>Board to Board FPC, IO, RF USB, Connectors, Head and Socket, Terminal Blocks</p> |  <p>Switches - Micro, Slide, Tactile, Rotary, Detector and Multifunction</p> |
|  <p>Anti-vandal, Capacitive, Toggle, Rocker Slide, Pushbutton, Industrial Control, Indicators foot, Rotary, Rotary Dip, Keylock, Micro, Dip, Membrane Keypads, Fuse Holders Buzzers, Thumbwheel Pushwheel Detect, Tact switches</p> |  <p>Toggle, Touch Screens Rotary, Rocker Membrane Keypads Surface Mount Slides, Dips, Pushbuttons Indicators, Tactiles Keylocks, Emergency Stop</p> |  <p>Switch Products Acoustic Components Magnetic Buzzer Piezo Buzzer Mechanical Buzzer Speaker Dynamic Receiver Ultrasonic Transducer Electret Condenser Microphone Sensor Products</p> |  <p>Relays- AC, DC, Automotive, Mosfet and signal Relays, Switches, Motion Controller, Sensing Devices, connectors-FPC</p> |
|  <p>IC Sockets, Test and Burn-in Socket, BGA, LGA, QFN</p> |  <p>Board to Board Connectors, FFC/FPC Connectors, Interface Connector</p> |  <p>Fans, Blowers, Heat Sinks, DC, Gear & Stepper Motors.</p> |  <p>Magnetic Latching Relay, Power Relay New Energy Relay, Signal Relay Automotive Relay</p> |
|  <p>Piezo Buzzer, Magnetic Buzzer, Mechanical Buzzer</p> |  <p>Power Inductors, Transformers, Signal Transformers, EMC</p> |  <p>Lithium Batteries, Latching Relays</p> |  <p>Li/SOCL₂ Battery – Bobbin Type Li/SOCL₂ Battery -Wound Type</p> |

DISPLAYS

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|--|--|---|---|
|  <p>LCD Modules, Display Modules, Touch Panel, Camera Modules, Fingerprint Modules, Electronics Paper Display</p> |  <p>Display Modules, Automotive TFT Module, Mini LED, LCD Display</p> |  <p>TFT, LCD, Graphic LCD Display & Modules</p> |  <p>Graphic, Character, TFT and customised LCM Display</p> |
|  <p>TFT Display OLED Display LCD Display, Smart Display E-paper Display, Coding System</p> | | | |

DTDS SOLUTIONS CAPABILITIES

| PRODUCT DEVELOPMENT | HARDWARE DEVELOPMENT | SOFTWARE DEVELOPMENT |
|--|--|---|
| <ul style="list-style-type: none"> • Microcontroller based product design (8/16/32 bit) • Industrial, Consumer and IoT Application development using various sensors • Product prototyping, testing and customization • Compliance and Certification | <ul style="list-style-type: none"> • Analog, Digital and Mixed Signal designs • Simulations • Schematic Entry • PCB layouts – up to 14 layers • MTBF and Component derating calculations • Obsolescence addressing | <ul style="list-style-type: none"> • C/C++ • Python scripting • Android - basic Mobile Apps • Linux (RT and Non-RT) • FreeRTOS • Building SW Servers • Product Configuration tools |
| IoT TECHNOLOGY AREAS | DEVELOPMENT TOOLS | AREAS TO DEVELOP |
| <ul style="list-style-type: none"> • LoRa, LoRaWAN • 6LoWPAN • GSM/UMTS/LTE/NB IoT • Mesh Networking • WiFi / BLE | <ul style="list-style-type: none"> • Schematic & Layout – Altium • Simulations – LT Spice • Microcontroller SW – Renesas CS+, e2 Studio • Python – PyCharm • FPGA – Quartus, Model-sim | <ul style="list-style-type: none"> • Power Electronics • RTL coding, Test bench for FPGA Design • Web Services – AWS, MS Azure • Model based SW – MATLAB • Simulations – LabVIEW |

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