

# LINE CARD

## FRANCHISED LINES

### COMPONENTS

#### SEMICONDUCTORS

	Wireless modules & SoCs, MCUs, Sensors, Interface ICs, PMICs. Supports all IoT protocols and new standards for security.
	Power & Battery Management PMICs, DC/DC Converters, LED Driver ICs, Energy Measurement & Electricity Metering ICs, ESD Protection & Protection Switch ICs, Ambientlight & Proximity Sensors, Timing & Microprocessors.
	Energy Harvesting PMICs, Photovoltaic, Radio Frequency, Thermal, Vibration, Low power MCU.
	Organic indoor/outdoor light energy harvesting modules (LEHs).
	Low Power SRAM, Fast SRAM, LED Driver ICs, LED Lights.
	DDR1, DDR2, DDR3, Mobile DDR, Synchronous SRAMs & DRAMs, Low Power & Fast Asynchronous SRAMs, New Flash generation.
	Diodes & Rectifiers, Protection Devices, JFETs & MOSFET Transistors, Thyristors, Multi Discrete Modules.
	Power Magnetics, LED Transformers, EMI & RFI Filters, LAN & COM Magnetics, DC/DC Converters.
	Transformer Products, Inductor Products, Filters.
	Bandpass & Crystal Filters, Crystals, Oscillators, Resonators, Synchronization Modules, Antennas.

### INSTRUMENTS

#### TEST & MEASUREMENT

	Real-time and sampling oscilloscopes, Vector network analyzers, Signal Analyzers & Generators, Logic analyzers, Protocol analyzers, BERTs, Power analyzers, Multimeters, Current Analyzers, LCR meters and impedance analyzers, Arbitrary function & waveform generators, Parameter Analyzers and SMUs, Lightwave component analyzers, Optical modulation analyzers, Tunable laser sources, Optical attenuators and switches, Signal generation and analysis software, 5G, 6G, Quantum and aerospace and defense solutions.
	USB based oscilloscopes (real-time and sampling with TDR), Vector network analyzers, Synthesizers and pulse generators and data loggers.
	AC / DC power supplies, DC electronic loads, SMUs, Function generators, LCR meters, Oscilloscopes, Spectrum analyzers, Digital multi meters.
	DC power supplies, arbitrary function generators, SMUs.
	PCBite solution for soldering, inspection and handsfree measurements.
	RF and µWave cables, Cable assemblies, Custom cables, Connectors and adapters, Antennas.
	AC / DC power supplies and electronic loads, Bidirectional, Regenerative, SMUs.
	Probe stations, Probes, Probes cards, Metrology, Quantum cryogenics.
	USB based real-time spectrum analyzers, antennas, drone detection systems and jammers.
	Broadband optical spectrum analyzers for photonics and telecom applications, Optical attenuators, Handheld spectrum analyzers, Vector network analyzers.
	Arbitrary waveform generators, Pulse generators, Digital and pulse pattern generators, NI FlexRIO adapter modules.
	Optical spectrum analyzers, Tunable laser sources, Optical power meters, Optical time domain reflectometers, Components analyzers, BERT.
	PCB and probe clamps for measurements, Inspection and, soldering
	Test power supplies for electric vehicle testing, power battery tests, hydrogen energy & fuel cell tests, power semiconductor test, and photovoltaic (PV) energy storage testing.

### ICT

#### INFORMATION & COMMUNICATION TECHNOLOGY

	Field Network Testing: OTDR, OSA, OPM, Ethernet, CPRI, RF, 5G, Transport, High speed up to 800Gig and beyond. Remote fiber testing and monitoring solutions. Lab and Manufacturing Testing: Tunable Laser sources, Optical component testers, Filters, Light sources, Power meters, Optical bench-tops, OSA.
	Fusion Splicers, Fibre Cleavers, Splicing Accessories.
	Field portable Spectrum Analyzers up to 43GHz EMF, NIS, Tailored NISAPP's, 5G, LTE, Interference hunting and lab OSA.
	Analyzers, Generators, O-RAN solutions, RF Network Solutions LTE, 5G up to layer 3.
	World leading timing provider Grand Master, Boundary clock provisioning systems. Rubidium, Cesium, Maeser.
	Highly efficient fiber optical cleaning products.
	Tailored RF shielding solutions for any application.
	Fusion splicers to manage fiber splicing for lowest and least reflectance and most reliable fiber joints.
	Solutions to address test & assurance for 5G, open RAN, high-speed ethernet, SD-WAN/SASE plus automation challenges of a new generation of technologies like cloud, autonomous vehicles and beyond.

### COMPONENTS

#### IOT & EMBEDDED COMPUTING

	Wireless IoT Connectivity Modules & Sensors, IoT Gateways, IoT Devices and Trackers based on GNSS, Wi-Fi, Bluetooth/BLE, LoRaWAN & mioty Technology, Custom hardware and software development.
	Wireless IoT Connectivity Modules based on Cellular (2G/3G/4G/5G/NB-IoT/eMTC), Embedded wireless System on Modules (SOM) based on GNSS, Wi-Fi, Bluetooth, Cat.M1 M2M Modules, Android OS LTE Modules (SOM), Wi-Fi hotspot.
	Computer on Modules (SOM/COM) in different form factors with Carrier boards, Single Board Computers and IoT Gateways based on ARM-CPUs from NXP/Texas Instruments/Renesas/Atmel, Custom hardware and software development.
	Computer on Modules (SOM/COM) as Qseven/COM Express/ETX/XTX/SMARC/SODIMM-200 CPU-Modules with Carrier boards, Single Board Computers, Touch Panel-PC HMI Solutions, fanless embedded Box-Computer and IoT-Gateways based on ARM & x86 CPUs.
	SSDs (2.5"-SATA), SATA-SSD-Modules (m.2 SATA, mSATA MO-300), PCIe U.3 Data Center SSDs, M.2 PCIe SSD-Modules, SD-/microSD-/Cfast-/CompactFlash- Cards, USB-Sticks, iShield Security Products (FIDO2 USB-A/NFC Security Key) FIDO2 Tokens, HSM anchors for IoT-devices and encrypted SD cards to protect and store sensitive video data.
	Fiber optic assemblies, RFoF, GPSoF, LANoF, Vehicle, Omni-directional and directional antennas, RF adapters (MBX, MMBX, SMPM, SMP), Lightning protection, Mobile field cables.

### COMPONENTS

#### DISPLAYS

	Capacitive (P-CAP) & Resistive Touch Panels & Touch Controllers, Touch-Display Solutions, Multitouch, Security/Waterproof Solutions up to 23".
	HMI Embedded Solutions, Touch-Display Solutions, TFT LCD Display Panels, COG & VATN/PBT & Graphics & Character LCD Modules, FS-LCDs.
	Touch-Display Solutions, TFT LCD Display Panels, Display Controllers & Interfaces, Backlight Drivers, Sunlight readable TFT LCD Enhancements, Capacitive (P-CAP) Touch Panels, Optical Bonding, Customized Displays, OLED Displays, Memory LCD.
	Touch Display Solutions, TFT LCD Display Panels (2.8" to 24.6"), Bar Cut TFT Panel, Graphics & Character LCD Modules, Customised Displays, OLED Displays.
	Touch-Display Solutions, TFT LCD Display Panels (2.4" to 15.6"), TN & STN & HTN LCD Displays, Graphics & Character LCD Modules.
	Touch-Display Solutions, TFT LCD Display Panels (1.8" to 10.1"), COG & Graphics & Character LCD Modules.
	Touch-Display Solutions, Customized Displays, Graphics & Character LCD Modules, ChLCD Modules.
	Customized Displays, Graphics & Character LCD Modules.
	Printed ultra-low power E-Paper Label-Displays, Segmented cut-out shape Displays & Color labeling Solutions.





### SOFTWARE

#### DEVELOPMENT TOOLS

	A world leader in developing and creating electronic design tools for professional electronic designers. The flagship product Altium Designer is known for excellence in native 3D PCB designing and incorporates all the design tools into a single, unified user interface.
	2D CAD, 3D CAD, CAM, ECAD-MCAD Collaboration, Electrical Design, Product Data Management, Simulation Solutions, Technical Communication, Visualization.
	C/C++ compilers, debuggers, RTOS and middleware libraries, evaluation boards for ARM, Cortex-M, Cortex-R4, C51, C166, C251 processor families.
	Powerful, Scalable & Connected engineering solutions portfolio of cloud-native and cloud-connected applications serving 2D CAD, 3D CAD, CAM, PLM, Electrical, Simulation, Manufacturing, Marketing, Visualization, Social Business Intelligence, Cross Teams Collaboration.

### CYBERSECURITY

#### HARDWARE SECURITY SOLUTIONS

	Hardware-encrypted flash drives (USB, SSD & HDD) up to 20 TB, Anti-virus and port blocker software and tools to manage, control and audit your drives remotely.
	Various solutions for securing devices & data, based on proven storage technology. Secure credentials or certificates with FIDO2 Hardware Tokens and Security Anchors, secure & archive camera footage with encrypted SD cards.
	The HSM from Switzerland can sign and encrypt data and authenticate transactions and messages. Perfect for PKI environments and blockchain applications. Easy to integrate into existing systems, extremely powerful and tamper resistant. HSM, HSM as a Service, VPN systems for encrypted communication as well as mesh link encryptors.
	External hardware-encrypted storage devices that can be fully and easily integrated into existing PKI systems. Decryption with PIN and smart card. Approved by the BSI up to level NATO-Restricted or VS-NFD. SSD, HDD, and USB sticks up to 16TB.

#### WHAT WE DO?

We translate your needs into high-level electronic solutions. Our product portfolio includes high-quality electronic components, IoT communication modules and technology for test & measurement, as well as engineering and developing software. We represent the world's leading manufacturers, such as Silicon Labs, SECO, Silergy, Altium, Solidworks, EXFO & Keysight Technologies.

#### WHAT MAKES US DIFFERENT?

- We are independent and dedicated to solutions from more than 50 different high-tech suppliers.
- We provide technical sales & support from the very first design through manufacturing up to the entire life cycle management.
- We keep your supply chain and logistics management lean & digital.
- We are your first-choice partner with presence in Switzerland, Germany, Italy & a network of Eastern European local offices.

#### HEADQUARTERS

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