

**The IP&E  
Specialist**

# Home Healthcare & Remote Patient Monitoring Application Guide

TTI, Inc., – A Berkshire Hathaway Company



# The IP&E Specialist

## The Specialist in Electronics Component Distribution

Founded in 1971, TTI has steadily grown to become a world leading specialist distributor of electronic components. The company was founded on the premise that passive component purchasing could be made more efficient by offering product specialization, customer-driven service and proprietary supply chain solutions.

### Why TTI?

- **Technical Experts** TTI's European team of field-based Sales Engineers and local Product and Technical Specialists are here to support you; from understanding component trends, sustainable sourceability and new product roadmaps, to in depth technical support for your design from our technical engineering experts.

- **Value Added Services** Connector assembly is one of the most important value-added services at TTI, Inc. – Europe. We are specialized in distributing manufacturer controlled and certified connectors and interconnect solutions from globally leading suppliers. Thanks to a large inventory level of connector components, TTI, Inc. – Europe can serve any market requirements.

- **Global Distribution Centers** Our European headquarters is located just outside of Munich, Germany in Maisach-Gernlinden. In total, we have 45.000m<sup>2</sup> of dedicated warehouse space and local sales and technical support in over 40 locations across Europe. TTI has more than 195.000m<sup>2</sup> of automated warehousing in North America, Europe and Asia. All are linked into a global warehouse management system that provides superior customer service and overall business efficiencies. Wherever you are in the world, TTI can support you. Year after year, customers rate our inventory availability, on-time delivery and accuracy among the very best in the industry – contact us today to find out what a true specialist has to offer.

- **Quality and Reliability** TTI's global warehouses are all ISO-registered and have received certification to the ISO 9001 and ISO 14001 Standards. TTI Europe is also certified to EN9120/EN9100, IECQ-CECC and ISO/IEC 27001 Standards. Additionally, our European sales branches are ISO 9001 certified. TTI has one global documentation system that ensures that every TTI branch and warehouse in the world follows the same processes.





**80+**  
Suppliers



**45.000 m<sup>2</sup>**  
Warehousing Space



**One of the largest Autostore  
systems in Europe**



**40**  
Sales Locations

**24/7**  
Available to Order Online



[www.ttieurope.com](http://www.ttieurope.com)

## Application Guide

With a growing elderly population, there is a rising incidence of chronic diseases, leading to a growing need for cost-effective healthcare treatment.

This includes home testing and diagnosis, home healthcare therapeutic equipment, and self-monitoring wearables, all supported by an improved data communication network – Telehealth.

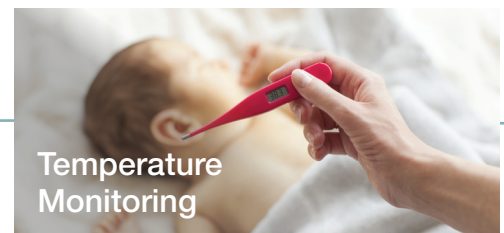
This is leading to a growth in technological advancements in home-care medical devices as listed below.

### Home Monitoring

- Activity monitor wristbands
- Peak flow meters
- Heart rate monitors and ECG devices
- Fetal monitoring devices
- Blood pressure monitors
- Blood glucose monitoring
- Pulse oximeters
- Temperature monitors
- Hearing aids

### Therapeutic/Remedial Products





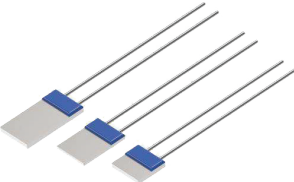




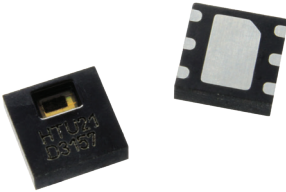
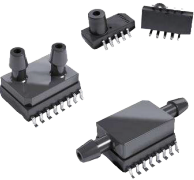
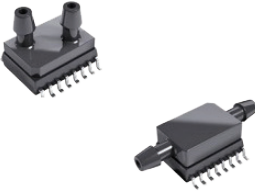
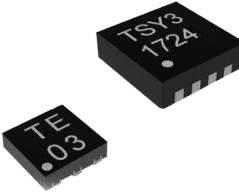
- Oxygen delivery systems
- Nebulizers/inhalers
- Ventilators
- Sleep apnea therapeutic devices
- Wound care products
- IV equipment, drug delivery devices
- Dialysis equipment
- Insulin delivery devices
- Automated external defibrillators (AEDs)





	<p><b>Amphenol</b> Advanced Sensors</p>	<p><b>Amphenol</b> Advanced Sensors</p>	<p><b>Amphenol</b> Advanced Sensors</p>
<p><b>ELV Series</b> Pressure Sensors</p>	<p><b>Type MA100 Series NTC</b> Thermistors</p>	<p><b>ZTPD-2210 digital output IR</b> detectors</p>	<p><b>SC/MC Series</b> NTC Thermistors</p>
<ul style="list-style-type: none"> <li>• COBEAM-2 pressure sensors die</li> <li>• High performance die</li> </ul>	<ul style="list-style-type: none"> <li>• 400 Series compatible</li> <li>• Interchangeability/accuracy from <math>\pm 0.05^{\circ}\text{C}</math> to <math>0.15^{\circ}\text{C}</math></li> <li>• Small size, fast response</li> <li>• Fully electrically insulated</li> </ul>	<ul style="list-style-type: none"> <li>• Factory Calibrated Temperature Range</li> <li>• Ambient temperature compensation</li> <li>• I2C Interface</li> <li>• Sleep Mode for energy saving</li> </ul>	<ul style="list-style-type: none"> <li>• Micro thermistor for medical sub assemblies, glucose monitors and catheter integration</li> </ul>
			
<p><b>Honeywell</b></p>	<p><b>Honeywell</b></p>	<p><b>Honeywell</b></p>	<p><b>Honeywell</b></p>
<p><b>HAF Series</b> AirFlow Sensors</p>	<p><b>ABP2 Series</b> Board Mount Pressure</p>	<p><b>MPR Series</b> Micro Pressure</p>	<p><b>TruStability</b> Board Mount Pressure</p>
<ul style="list-style-type: none"> <li>• Analogue AWM series and digital HAF Zeyphr AirFlow sensors</li> </ul>	<ul style="list-style-type: none"> <li>• Small form factor good performance pressure sensors series for cost sensitive applications</li> </ul>	<ul style="list-style-type: none"> <li>• Ultra small ported pressure sensors for low pressure medical applications e.g. Spirometry</li> </ul>	<ul style="list-style-type: none"> <li>• HSC/SSC/RSC series pressure sensors high performance low pressure and ultra low pressure applications e.g. ventilators</li> </ul>
			
<p><b>Honeywell</b></p>	<p><b>muRata</b> INNOVATOR IN ELECTRONICS</p>	<p><b>muRata</b> INNOVATOR IN ELECTRONICS</p>	<p><b>muRata</b> INNOVATOR IN ELECTRONICS</p>
<p><b>City Technology</b> MOX Series 3, 4, 20</p>	<p><b>NTC thermistors</b></p>	<p><b>AMR sensors</b></p>	<p><b>Ionissimo</b> Ioniser/Ozonizer</p>
<ul style="list-style-type: none"> <li>• Electro-chemical oxygen concentration sensors for medical applications M16 connection</li> </ul>	<ul style="list-style-type: none"> <li>• Small size 1608/1005</li> <li>• Various resistance line up</li> <li>• Tighter resistance tolerance</li> <li>• High reliability</li> </ul>	<ul style="list-style-type: none"> <li>• High sensitivity</li> <li>• Low current consumption</li> <li>• Robust</li> <li>• Small package</li> </ul>	<ul style="list-style-type: none"> <li>• Ideal for air cleaning, sterilization and deodorization applications</li> <li>• Design that separates the high voltage power supply from the ion generator</li> </ul>
			



 <p>INNOVATOR IN ELECTRONICS</p>		 <p>AUTHORIZED DISTRIBUTOR</p>	 <p>AUTHORIZED DISTRIBUTOR</p>
<p><b>BCGMCU</b></p>	<p><b>B5L TOF Sensor Module</b></p>	<p><b>FS20 Force Sensors</b></p>	<p><b>RTD Series Platinum Film Element</b></p>
<ul style="list-style-type: none"> <li>• Embedded patient monitoring sensors with embedded inclinometer</li> </ul>	<ul style="list-style-type: none"> <li>• Real-time 3D sensing of distance to humans or objects – ideal for patient monitoring (human pose estimation)</li> </ul>	<ul style="list-style-type: none"> <li>• FS20 Series – small form factor, low compression force cell suitable for applications like medical infusion pumps</li> </ul>	<ul style="list-style-type: none"> <li>• RTD temperature sensors PT100 PT1000 ultra stable temperature measurement for high performance medical applications</li> </ul>
			
 <p>AUTHORIZED DISTRIBUTOR</p>	 <p>AUTHORIZED DISTRIBUTOR</p>	 <p>AUTHORIZED DISTRIBUTOR</p>	 <p>AUTHORIZED DISTRIBUTOR</p>
<p><b>HTU 31x Humidity Sensors</b></p>	<p><b>SMI4x00</b></p>	<p><b>SMI9000 Ultra Low Digital Pressure</b></p>	<p><b>TSYS03 Digital Temperature Sensors</b></p>
<ul style="list-style-type: none"> <li>• HTU31 – is one of the smallest and most accurate humidity sensors on the market</li> <li>• Available in digital and analogue versions</li> </ul>	<ul style="list-style-type: none"> <li>• SMI 4x00 – multiple package styles</li> <li>• Digital and analogue pressure sensor dual output option</li> </ul>	<ul style="list-style-type: none"> <li>• Ultra low pressure sensor series small footprint digital output only</li> </ul>	<ul style="list-style-type: none"> <li>• Miniature digital temperature Sensors for medical probes and patient monitoring applications</li> <li>• Low power</li> </ul>
			






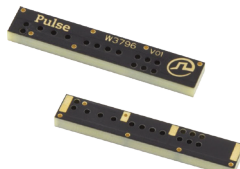





# Connectivity



<p><b>Amphenol®</b></p>	<p><b>Amphenol ICC</b></p>	<p><b>Amphenol ICC</b></p>	<p><b>Amphenol ICC</b></p>
<p>pulseOne Cable Assemblies</p>	<p>USB Type C</p>	<p>Micro SD and SD Card Sockets</p>	<p>Bergstak Board-to-Board</p>
<ul style="list-style-type: none"> <li>• 4 to 14 pole configurations</li> <li>• Friction-fit 'D' shaped connectors</li> <li>• Multiple keying options</li> <li>• Shielded connector and cable bundle options</li> </ul>	<ul style="list-style-type: none"> <li>• From USB 2.0 to USB 4 Gen 3 in unsealed and waterproof versions</li> <li>• Partially loaded options when not all circuits are required</li> </ul>	<ul style="list-style-type: none"> <li>• Many varieties of user friendly card sockets</li> <li>• Shielded with superior solder ability and performance</li> </ul>	<ul style="list-style-type: none"> <li>• Bergstak micro pitch B-B from 0.4mm to 0.8mm, position options from 10 to 200, and stack height flexibility from 3mm to 20mm</li> </ul>
			
<p><b>Amphenol LTW®</b> <small>Unrivaled InterConnects for Harsh Environments</small></p>	<p><b>HARWIN</b></p>	<p><b>JAE</b></p>	<p><b>TAOGLAS</b></p>
<p>FLOS &amp; FLOS+</p>	<p>Datamate J-Tek Connectors</p>	<p>RK01 Series Wearable Connectors</p>	<p>PCS.55.A Small FR4 LTE Embedded Antenna</p>
<ul style="list-style-type: none"> <li>• FLOS &amp; FLOS+ Series feature a push-pull and break-away mechanism, 360° EMI shielding, high performance and reliable connection power, data, signal or hybrid needs</li> </ul>	<ul style="list-style-type: none"> <li>• Highly reliable 2mm pitch range featuring jackscrew hardware for increased security when failure is not an option</li> </ul>	<ul style="list-style-type: none"> <li>• Connector system which is washable providing connectivity in fabric for smart clothing</li> </ul>	<ul style="list-style-type: none"> <li>• Small form factor (27 x 10 x 1.6 mm)</li> <li>• Available in North America, EMEA and Worldwide configurations</li> </ul>
			
<p><b>muRata</b> <small>INNOVATOR IN ELECTRONICS</small></p>	<p><b>molex</b></p>	<p><b>molex</b></p>	<p><b>molex</b></p>
<p>Type 2EG BLE Module</p>	<p>MMCX RF Connectors</p>	<p>Easy-On FFC/FPC Connectors</p>	<p>SlimStack Battery Power Supply</p>
<ul style="list-style-type: none"> <li>• Ultra low-power consumption</li> <li>• Integrated Antenna</li> <li>• Small Form factor (7.0 x 7.4 mm)</li> </ul>	<ul style="list-style-type: none"> <li>• Ideal for space-critical applications, the MMCX compact and lightweight connectors provide reliable electronic performance from DC to 6 GHz</li> </ul>	<ul style="list-style-type: none"> <li>• Latching ZIF connector with dual contact point</li> <li>• Vibration and stress resistant</li> <li>• Wide temperature range and high data rate</li> </ul>	<ul style="list-style-type: none"> <li>• Achieve up to 10.0A of power &amp; electrical reliability in an ultra-compact design with SlimStack hybrid power connectors, designed for battery and other power applications</li> </ul>
			

# Connectivity










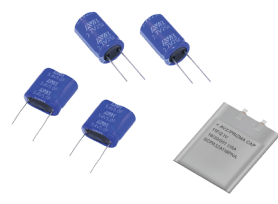
 <p><b>muRata</b> INNOVATOR IN ELECTRONICS</p>	 <p><b>muRata</b> INNOVATOR IN ELECTRONICS</p>	<p><b>Panasonic</b> INDUSTRY</p>	<p><b>Panasonic</b> INDUSTRY</p>
<p><b>Ultra-miniature UHF RFID tags</b></p>	<p><b>Type 1YN Wi-Fi/Bluetooth Module</b></p>	<p><b>PAN1781 BLE Module</b></p>	<p><b>PAN9026 Wi-Fi/Bluetooth Module</b></p>
<ul style="list-style-type: none"> <li>World's smallest class FID tags</li> <li>Best fit for small applications such as wearable items and test vials</li> </ul>	<ul style="list-style-type: none"> <li>2.4Ghz 802 b/g/n WiFi + Bluetooth module</li> <li>Infineon chipset</li> <li>Small Form factor (6.95 x 5.15 mm)</li> </ul>	<ul style="list-style-type: none"> <li>BLE long range, direction finding, multi-protocol (BLE, Zigbee, thread).</li> <li>Low current consumption of 1.2uA in RTC deep sleep mode</li> </ul>	<ul style="list-style-type: none"> <li>Dual band 2.4/5 GHz 802.11 a/b/g/n Wi-Fi/BT 5 combo module, multiregion certification</li> </ul>
			
 <p><b>Pulse</b> A YAGEO Company</p>	 <p><b>Pulse</b> A YAGEO Company</p>	 <p><b>Pulse</b> A YAGEO Company</p>	 <p><b>SCHURTER</b> ELECTRONIC COMPONENTS</p>
<p><b>W3008C BLE Ceramic Chip Antenna</b></p>	<p><b>W3011A GNSS Ceramic Chip Antenna</b></p>	<p><b>W3796 LTE Composite PCB Antenna</b></p>	<p><b>Main Filter and Cord sets</b></p>
<ul style="list-style-type: none"> <li>High-Efficiency ceramic chip antenna for WiFi, Bluetooth, Zigbee applications</li> <li>Resilient to hand loading effect</li> </ul>	<ul style="list-style-type: none"> <li>GNSS Ceramic chip antenna, compact size, omnidirectional radiation pattern</li> <li>Resilient to hand loading effect</li> </ul>	<ul style="list-style-type: none"> <li>High performance 4G LTE/Cat M1/NB-IoT composite PCB antenna, fully SMT compatible</li> </ul>	<ul style="list-style-type: none"> <li>Sealed power entry modules</li> <li>Standard white colour</li> <li>Very low leakage current</li> <li>V-Lock cord retention system</li> </ul>
			
			 <p><b>TE</b> CONNECTIVITY AUTHORIZED DISTRIBUTOR</p>
<p><b>Eclipta Series Connectors</b></p>	<p><b>D Series Quick Disconnect Plastic</b></p>	<p><b>HyperGrip Circular Colour Coded</b></p>	<p><b>2108784-1 5G SMD PCB Antenna</b></p>
<ul style="list-style-type: none"> <li>High density interconnect design</li> <li>Ideal for use with home healthcare devices and other disposable medical devices</li> </ul>	<ul style="list-style-type: none"> <li>Ruggedised with push button latch</li> <li>Suitable for applications including patient monitors, infusion pumps and lab equipment</li> </ul>	<ul style="list-style-type: none"> <li>Colour coded with push/pull latching design allowing for one-hand disconnect designed to meet medical industry requirements</li> </ul>	<ul style="list-style-type: none"> <li>Onboard SMD PCB antenna offering wide band coverage for 5G, 4G, 3G, 2G with GNSS</li> </ul>
			





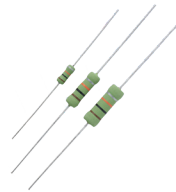


# Relays, Switches & Opto-Electronics


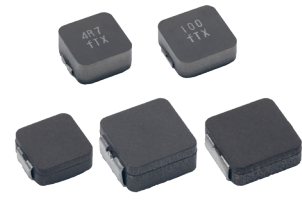


			
<p>CPC1008N</p>	<p>G3M G3M Solid State Relay</p>	<p>PhotoMOS® Relay AQY210EH</p>	<p>DRA1 SPF</p>
<ul style="list-style-type: none"> <li>• Load currents up to 150mA at 100V AC/DC</li> <li>• 1500VRMS input/output isolation, fulfills low drive power requirements</li> </ul>	<ul style="list-style-type: none"> <li>• 3 and 5A single in-line package SSR</li> <li>• Certified by UL, CSA, and VDE</li> <li>• Ideal for small heating systems</li> </ul>	<ul style="list-style-type: none"> <li>• Controls low-level analogue signals</li> <li>• 5kV reinforced insulation for high safety</li> <li>• For blood pressure gauges &amp; I/O in diagnostic systems</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for small pumps, blood transfusion equipment, incubators, dialysis machines, warming blankets and sterilizers</li> </ul>
			
			
<p>PBA-Series</p>	<p>HDT Series Micro Mini Detect Switch</p>	<p>KMT0-Series</p>	<p>DM-Series</p>
<ul style="list-style-type: none"> <li>• Sealed to IP68 or IP69K, easy to clean metal surface</li> </ul>	<ul style="list-style-type: none"> <li>• Low profile design allows top or side actuation. Low actuation force of 35 grams</li> </ul>	<ul style="list-style-type: none"> <li>• Ultra low current, up to 1M cycle with IP68 sealing, suitable for Medical instruments and battery devices</li> </ul>	<ul style="list-style-type: none"> <li>• Snap-in panel mount basic switch for appliance door lights and door interlocks, as well as service panels</li> </ul>
			
			
<p>EVPAW-Series</p>	<p>VLMU35CT20-275-120 UVC LED</p>	<p>VEML6035 I2C Ambient Light Sensors</p>	<p>VEMD4010X01 PIN Photodiode</p>
<ul style="list-style-type: none"> <li>• Small size, high robustness against dust/water by new technology</li> </ul>	<ul style="list-style-type: none"> <li>• Ceramic SMT package with quartz window</li> <li>• DC forward current: up to 200mA</li> <li>• Radiant power (typ.): 24.3mW at 200mA</li> </ul>	<ul style="list-style-type: none"> <li>• 16-bit, low power, high sensitivity ALS</li> <li>• Very flat package with 0.4mm height</li> <li>• Operating voltage ranges from 1.7V to 3.6V</li> </ul>	<ul style="list-style-type: none"> <li>• Very robust 0805 FAM package</li> <li>• Radiant sensitive area (in mm<sup>2</sup>): 0.42</li> <li>• Angle of half sensitivity: <math>\pm 55^\circ</math></li> </ul>
			



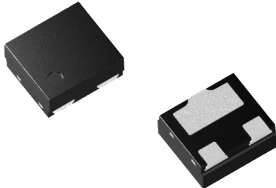


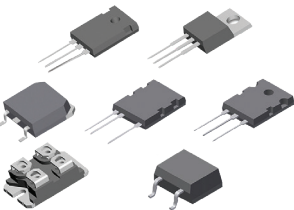
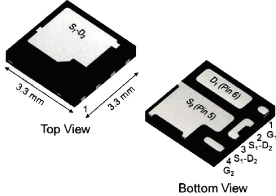
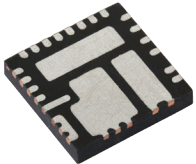


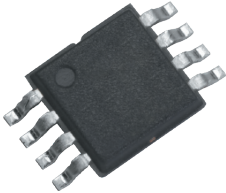

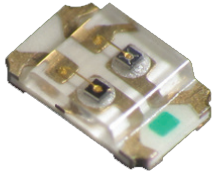

 <p>Powering Business Worldwide</p>			 <p>A KYOCERA GROUP COMPANY</p>
<p><b>Cylindrical Cell &amp; Pack Supercaps</b></p>	<p><b>Nano Fuse</b></p>	<p><b>NTC Thermistors</b></p>	<p><b>Supercapacitors</b></p>
<ul style="list-style-type: none"> <li>• KR/KW coincells for RTC</li> <li>• Cylindrical packs PHV and PTV mostly for alarming</li> <li>• XV cells for Xray and medical backup</li> </ul>	<ul style="list-style-type: none"> <li>• Surface mountable, compact footprint of 10.86 x 4.78mm</li> <li>• Small size/surface mountable type</li> <li>• Operating temperature range from -40°C to 85°C</li> </ul>	<ul style="list-style-type: none"> <li>• NTC families with standard lead spacing design</li> <li>• NTC miniSensors</li> <li>• NTC with flexible wires</li> <li>• Wide variety of resistance values R (25°C)</li> </ul>	<ul style="list-style-type: none"> <li>• Superior reliability, passes 4000 hours life tests</li> <li>• Customized options for modules</li> <li>• Molded encapsulation and prismatic case options</li> </ul>
			

 <p>INNOVATOR IN ELECTRONICS</p>		<p><b>Panasonic INDUSTRY</b></p>	
<p><b>Safety Capacitors</b></p>	<p><b>PCF Ceramic Pulse Resistors</b></p>	<p><b>Wide Terminal Shunt Resistors</b></p>	<p><b>Shielded Power Inductors</b></p>
<ul style="list-style-type: none"> <li>• Small size and low profile can help to reduce the size of the board and the height of the set</li> <li>• X1/Y1/Y2 class product which has acquired Safety Standard Certification</li> </ul>	<ul style="list-style-type: none"> <li>• Full ceramic body for HV and surge currents</li> <li>• 20kV pulse voltage, power rating up to 2W</li> <li>• Non-inductive, AEC-Q200 qualified</li> </ul>	<ul style="list-style-type: none"> <li>• Used in current sensing solutions</li> <li>• Small case size with high power</li> <li>• Excellent long term stability</li> <li>• Superior heat dissipation to avoid hot spots</li> </ul>	<ul style="list-style-type: none"> <li>• High saturation current, up to 60A</li> <li>• Magnetically shielded</li> <li>• Low DCR</li> <li>• Inductance selection 0.1 – 15µH</li> </ul>
			

 <p>a YAGEO company</p>
<p><b>Power Inductors</b></p>
<ul style="list-style-type: none"> <li>• Metal composite core has high saturation characteristics maintaining function in rush current mode</li> <li>• Composite construction with low acoustic noise</li> </ul>






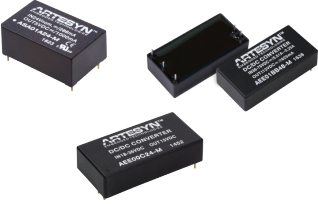





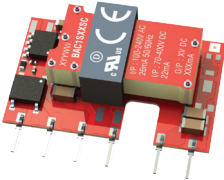
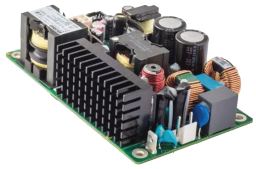
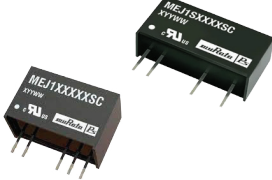
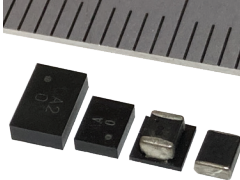


# Discrete Semiconductors

			
<p><b>TBU-CA Series High-Speed Protectors</b></p>	<p><b>SP11xx-Series TVS Diodes</b></p>	<p><b>VBUS05M2-HT5 ESD Prot. Diodes</b></p>	<p><b>IGBT: BiMOSFET Series</b></p>
<ul style="list-style-type: none"> <li>• Overcurrent and overvoltage protection</li> <li>• Blocks surges up to rated limits</li> <li>• High-speed performance</li> <li>• Small SMT package</li> </ul>	<ul style="list-style-type: none"> <li>• Low clamping voltage</li> <li>• Low leakage current</li> <li>• AEC-Q101 qualified</li> </ul>	<ul style="list-style-type: none"> <li>• Small DFN1110-3A</li> <li>• 2-line ESD protection</li> <li>• Low leakage current and low capacitance</li> <li>• Ideal for high speed data line e.g. HDMI, DisplayPort, eSATA</li> </ul>	<ul style="list-style-type: none"> <li>• High blocking voltage</li> <li>• High power density</li> <li>• High current handling capability</li> <li>• Low conduction losses</li> <li>• MOS gate turn on for drive simplicity</li> </ul>
			
			
<p><b>MOSFET: HiPerFETs Series</b></p>	<p><b>SIZF360DT Dual N-Ch 30V MOSFETs</b></p>	<p><b>IXD604 4A Ultrafast MOSFET Drivers</b></p>	<p><b>SIC474 3A DC/DC Converters</b></p>
<ul style="list-style-type: none"> <li>• Suitable for battery chargers, temperature light controls, DC/DC converters</li> <li>• Compact, ultra-low profile SMPD package</li> <li>• Saving valuable PCB space</li> </ul>	<ul style="list-style-type: none"> <li>• TrenchFET® Gen IV power MOSFET</li> <li>• Low side MOSFET with integrated Schottky</li> <li>• Double cooled feature</li> </ul>	<ul style="list-style-type: none"> <li>• 4A source/sink drive current</li> <li>• wide operating voltage range: 4.5V to 35V</li> <li>• Logic input withstands negative swing of up to 5V</li> </ul>	<ul style="list-style-type: none"> <li>• Versatile – single supply operation from 4.5V to 55V input voltage</li> <li>• Adjustable output voltage down to 0.8V</li> <li>• Scalable solution 3A</li> </ul>
			
	 <p>Kingbright Electronic Europe GmbH</p>	 <p>Kingbright Electronic Europe GmbH</p>	
<p><b>DG469 SPDT Analogue Switch</b></p>	<p><b>KPHHS-1005LV Series SMD LED 0402, low current</b></p>	<p><b>KPHBM-2012 Series SMD 0805, low current, bi-colour</b></p>	<p><b>VCNL-Series: Digital IR Proximity Sensors</b></p>
<ul style="list-style-type: none"> <li>• Low on resistance (3.6Ω typical)</li> <li>• On resistance flatness (0.4Ω typical)</li> <li>• 44V supply maximum rating</li> <li>• ± 15V analogue signal range</li> </ul>	<ul style="list-style-type: none"> <li>• Low power consumption</li> <li>• Wide viewing angle</li> <li>• Ideal for backlight and indicator</li> </ul>	<ul style="list-style-type: none"> <li>• Low power consumption</li> <li>• Wide viewing angle</li> <li>• Ideal for backlight and indicator</li> </ul>	<ul style="list-style-type: none"> <li>• Fully integrated proximity and ambient light sensors with I2C interface for presence detection, gesture recognition, screen wakeup and many more touchless solutions</li> </ul>
			

# Power Supplies



			
<p>Medical DC/DC</p>	<p>LCM Series Bulk Power</p>	<p>NGE100 (U) Series</p>	<p>MPM/On-Board</p>
<ul style="list-style-type: none"> <li>• IEC60601-1 3<sup>rd</sup> Ed, IEC60601-1-2 4<sup>th</sup> Ed EMC, 2XMOOP, low leakage current</li> <li>• Some are suitable for B or BF rated applications</li> </ul>	<ul style="list-style-type: none"> <li>• Power ratings of 300W-3kW</li> <li>• Output voltages from 12V-48V with adjustment range of <math>\pm 10\%</math></li> <li>• IEC60601-1 3<sup>rd</sup> Ed</li> </ul>	<ul style="list-style-type: none"> <li>• 100W Universal 4-Port USB GaN Fast Charger</li> <li>• Universal compatibility, one device for multiple uses, can charge various electronic devices</li> </ul>	<ul style="list-style-type: none"> <li>• 2xMOPP level, low leakage current suitable for type BF</li> <li>• Class II, meets EN55011 Class B</li> <li>• -30~+80°C</li> <li>• Fully potted</li> </ul>
			
			
<p>BAC Series 1-10W AC/DC On-Board</p>	<p>PQC250 AC/DC Power Supplies</p>	<p>MEJ Series DC-DC Converter</p>	<p>PicoBK™</p>
<ul style="list-style-type: none"> <li>• 1-10W from -40°C to 55°C, up to 85°C with D</li> <li>• Small footprint, EMC class B</li> <li>• Low standby power for battery</li> </ul>	<ul style="list-style-type: none"> <li>• IEC60601 Ed.3 medical</li> <li>• High efficiency: Up to 95.0%</li> <li>• IEC60601-1 4<sup>th</sup> Edition EMC standard</li> <li>• 250W compact high density</li> </ul>	<ul style="list-style-type: none"> <li>• High efficiency</li> <li>• Temp. range: -40 to 85°C</li> <li>• Encapsulated</li> </ul>	<ul style="list-style-type: none"> <li>• Very small SMT footprint</li> <li>• Efficiency 93% (typ.)</li> <li>• Low quiescent current</li> <li>• Excellent EMI and thermal performance</li> </ul>
			



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### Corporate Headquarters

TTI, Inc.  
2441 Northeast Parkway, Fort Worth, Texas 76106 U.S.A.  
T: +1 817 740 9000 | F: +1 817 740 9898  
E: information@ttiinc.com

### European Headquarters

TTI, Inc.  
Ganghoferstr. 34, 82216 Maisach-Gernlinden Germany  
T: +49 (0) 81 42 66 80 0 | F: +49 (0) 81 42 66 80 490  
E: sales@de.ttiinc.com

### European Sales Offices

#### Austria

Vienna  
T: +43 (0) 18 79 85 90  
E: sales.vienna@at.ttiinc.com

#### Belgium

Gent  
T: +32 9 274 0670  
E: sales.benelux@nl.ttiinc.com

#### Bulgaria

Varna  
T: +359 52 51 10 59  
E: sales.varna@bg.ttiinc.com

#### Czech/Slovak Republic

Brno  
T: +420 541 126 714  
E: sales.brno@cz.ttiinc.com

#### Denmark

Brøndby  
T: +45 (0) 43 29 35 35  
E: sales.copenhagen@dk.ttiinc.com  
Risskov  
T: +45 (0) 38 41 31 00  
E: sales.copenhagen@dk.ttiinc.com

#### Estonia

Tallinn  
T: +372 664 81 00  
E: sales.estonia@ee.ttiinc.com

#### Finland & Baltic Region

Espoo  
T: +358 98 94 65 200  
E: sales.finland@fi.ttiinc.com

#### France

Brive  
T: +33 (0) 5 55 92 92 93  
E: sales.france@fr.ttiinc.com

#### Bron

T: +33 (0) 472 81 2030  
E: sales.lyon@fr.ttiinc.com

#### Bruz

T: +33 (0) 2 99 77 60 84  
E: sales.rennes@fr.ttiinc.com

#### La Ciotat

T: +33 (0) 442 84 4142  
E: sales.marseille@fr.ttiinc.com

#### Montigny Le Bretonneux

T: +33 (0) 130 13 7380  
E: sales.paris@fr.ttiinc.com

#### Germany

Berlin  
T: +49 (0) 30 8877 40 200  
E: sales.berlin@de.ttiinc.com  
Dortmund  
T: +49 (0) 2301 91 304 0  
E: sales.dortmund@de.ttiinc.com  
Frankfurt  
T: +49 (0) 6102 5999 100  
E: sales.frankfurt@de.ttiinc.com

#### Hanover

T: +49 (0) 5 11 7 80 59 0  
E: sales.hannover@de.ttiinc.com

#### Munich

T: +49 (0) 81 42 66 80 110  
E: sales.munich@de.ttiinc.com

#### Nuremberg

T: +49 (0) 911 9520 0  
E: sales.BDG@de.ttiinc.com

#### Pforzheim

T: +49 (0) 7231 14788 0  
E: sales.stuttgart@de.ttiinc.com

#### Hungary

Budapest  
T: +36 1 40 22 111  
E: sales.budapest@hu.ttiinc.com

#### Ireland

T: +44 (0)1494 460000  
E: sales.ireland@ie.ttiinc.com

#### Israel/Ray-Q Ltd.

Airport City  
T: +972 3 975 3333  
E: sales@ray-q.com

#### Italy

Civitanova Marche  
T: +39 0733 81 8655  
E: sales.milan@it.ttiinc.com

#### Florence

T: +39 (0) 55 094 63 76  
E: sales.milan@it.ttiinc.com

#### Milan

T: +39 02 822 521  
E: sales.milan@it.ttiinc.com

#### Naples

T: +39 081 4245719  
E: sales.milan@it.ttiinc.com

#### Padova

T: +39 049 7802311  
E: sales.milan@it.ttiinc.com

#### Rome

T: +39 0774 57 1302  
E: sales.rome@it.ttiinc.com

#### Netherlands

Eindhoven  
T: +31 (0) 40 290 1616  
E: sales.benelux@nl.ttiinc.com

#### Norway

Drammen  
T: +47 (0) 92 66 87 66  
E: sales.norway@no.ttiinc.com

#### Poland

Kwidzyn  
T: +48 (0) 55 279 67 57  
E: sales.poland@pl.ttiinc.com

#### Portugal

Vila Nova de Famalicao  
T: +351 252 493084  
E: sales.barcelona@es.ttiinc.com

#### Romania

Cluj Napoca  
T: +40 (0) 733 339 002  
E: sales.romania@ro.ttiinc.com

#### South Africa

Pretoria  
T: +27 86 111 2844  
E: sales.southafrica@za.ttiinc.com

#### Spain

Barcelona  
T: +34 (0) 93 645 25 75  
E: sales.barcelona@es.ttiinc.com

#### Madrid

T: +34 (0) 91 416 11 90  
E: sales.madrid@es.ttiinc.com

#### Vizcaya

T: +34 (0) 94 623 25 80  
E: sales.bilbao@es.ttiinc.com

#### Sweden

Gothenburg  
T: +46 (0) 31 741 12 90  
E: sales.gothenburg@se.ttiinc.com  
Stockholm  
T: +46 (0) 8 594 11 800  
E: sales.stockholm@se.ttiinc.com

#### Switzerland

Baar  
T: +41 (0) 41 76741 90  
E: sales.swiss@ch.ttiinc.com

#### Algeria, Egypt & Tunisia

T: +216 (0) 71 862 693  
E: sales.tunis@fr.ttiinc.com

#### Morocco

T: +33(0) 555 92 92 93  
E: sales.morocco@de.ttiinc.com

#### Turkey

Istanbul  
T: +90 (0) 216 688 91 75 76  
E: sales.turkey@tr.ttiinc.com

#### United Kingdom

High Wycombe  
T: +44 (0)1494 460000  
E: sales.london@uk.ttiinc.com

#### Manchester

T: +44 (0)161 872 2019  
E: sales.london@uk.ttiinc.com

#### Resellers or Distributors

TTI Connect - Europe  
T: +49 8142 6680 168  
E: service@tticonnect.com

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