Your technology partner
From design to finished product
Cicor Group is a solutions provider with worldwide operations and a globally unique portfolio of services and technologies. With about 2500 employees at 15 production sites, the Cicor Group offers highly complex printed circuit boards, substrates and hybrid circuits as well as comprehensive electronic manufacturing services (EMS) including microelectronic assembly and plastic injection molding. Cicor supplies customized products and services from design to finished product from one source.

The latest discoveries combined with many years of experience, state-of-the art technologies together with exceptional expertise make Cicor a dependable and innovate partner in the development and production of compelling electronics solutions.
Innovative technology solutions for electronics

Electronic manufacturing services

Cicor is an international electronics service provider with a wide range of products and services in the fields of printed circuit board assembly, system assembly and box building, switchgear cabinet construction, cable assembly, tool design and fabrication and plastic injection molding. Cicor offers outsourcing solutions for the development and manufacture of electronic assemblies and complete devices and systems. As a globally active company with production sites in Switzerland, Germany, United Kingdom, Romania and Asia (Singapore, Vietnam, Indonesia, China), the Group exploits synergies and offers solutions based on many years of know-how.

Printed electronics

The Cicor sites in Bronschhofen (Switzerland) and Singapore offer printed electronics with a unique printing technology which enables a wide range of conductive, non-conductive and biocompatible materials to be printed on a wide range of substrates and forms. In addition, new opportunities exist for interconnect technologies that lead to performance improvements.

Printed circuit boards

The Cicor site in Boudry (Switzerland) is a PCB manufacturer specialized in sophisticated applications and highly miniaturized circuits. The site develops and produces high-quality rigid, rigid-flexible and flexible PCBs, focusing on high- and ultra-high density interconnects.

Substrates and hybrid circuits

With its sites in Radeberg (Germany), Ulm (Germany) and Wangs (Switzerland), Cicor is a leading manufacturer of high-quality thin- and thick-film substrates and hybrid circuits. Thick-film technology is a sophisticated technology for the production of wiring supports that has been used for decades. Thin-film technology is used in cases where the highest levels on miniaturization, high-frequency properties and biocompatibility are required.

The keys to success for Cicor are its global positioning and proximity to its customers. With a range of sales offices and representatives in the focus countries, Cicor ensures a consistently high level of service quality throughout the entire product life cycle.
Cicor supplies customized products and services from design to the finished product from one source.
Medical Technology

In medical technology, technological advances are constantly broadening the range of new, fascinating opportunities for the development and manufacture of electronic devices. In the medical field especially, the use of new technologies leads to convincing solutions for intelligent implants, lung respiratory devices, biocompatible sensors and miniature hearing aids. New technologies make it possible for increasingly complex devices to combine more and more functions in less and less space.

Aerospace and Defence

In the Aerospace and Defence sector, Cicor plays a prominent role in strategic international programs working with the world’s largest prime and tier one companies, providing high reliability equipment for mission, life and performance critical applications.

Building Technologies

Smart and connected devices interacting with each other in smart buildings and smart cities make the world an interactive place. Energy-saving sensors and wireless communication systems control building security, access control systems, building management, plumbing, and advanced lighting management.

Industrial

Electronics play an important role in improving the efficiency and productivity of industries. Digital transformation, IIoT, rising automation and smart cities needs sensors which electronical parts get more complex and miniaturized. With the help of electronics in the robots, they can perform even more sophisticated work and tasks. In the energy sector, electronic control systems ensure optimal energy supply and maximum safety. Electronics are essential to test and validate devices and equipment in different industrial environments. Electronics can deliver a number of applications for use in mechanical engineering.

Wearables

Wearable technology is connected to our daily lives. Cicor regularly showcases the newest technologies and processes in miniaturization and enables complex devices to be packed with more functions in less space.
Hearing aids
As a global outsourcing partner, the Cicor Group is responsible for the production of many electronic and plastic components for the hearing aid industry. As a long-standing partner, Cicor offers one-stop development services, superior PCBs, electronics assembly, toolmaking as well as plastic injection molding and box building.

Satellite communication
The Cicor Group substrate production sites comply with the highest quality and reliability requirements of the aerospace market and ensure traceability. Cicor continuously demonstrates the precision of its manufacturing processes and ensures traceability of its products throughout the supply chain.

Intraocular pressure sensor
The Cicor Group develops and produces for a customer a flexible antenna coil (flexible thin-film substrate based on polyimide) for an implantable intraocular pressure sensor.

Lung respiratory devices
The Cicor Group meets the high requirements for the development and production of electronic medical devices and systems. As an EMS partner, Cicor develops functional safe control systems for jet ventilation lung respiratory devices. Maximum reliability, system stability and functional safety are absolute essentials.

Passenger information systems
As an electronics manufacturer, Cicor is responsible for the production of components and electronic devices for operations control systems in use around the world. Services include complete device and system assembly, box building, including specific tests and after-sales services.

Control systems
As an EMS partner, Cicor develops and produces control systems for temperature control units. Cicor developed a modular control system that can be used in any type of device. The solution is designed as a high-grade distributed system – a group of autonomous controllers that are presented to the user as a single system.
Electronic manufacturing services

The Cicor Group is an international electronics service provider with a wide range of products and services in the fields of printed circuit board assembly, box building and system assembly, control cabinet construction, cable assembly, tool design and fabrication as well as plastic injection molding.

Cicor offers outsourcing solutions for the development and manufacture of electronic assemblies and complete devices and systems.

As a globally active company with EMS production sites in Switzerland, Germany, Romania, United Kingdom and Asia (Singapore, Vietnam, Indonesia, China), the Group exploits synergies and offers solutions based on many years of know-how.

Printed electronics

Cicor’s unique printing technology enables the printing of a wide range of conductive, non-conductive and biocompatible materials on a wide variety of substrates and forms. In addition, new opportunities exist for interconnect technologies that can lead to performance improvements and cost optimization.

Microelectronic assembly

The Cicor Group offers an extensive portfolio of assembly and interconnection technology for the manufacture of microelectronic modules and assemblies. Several production lines are available for fully automatic and semi-automated processes. The main focuses of the assembly technologies are SMD mounting, chip assembly, wire bonding, encapsulation, screening and testing.

Tool design and fabrication

Cicor specializes in producing precision injection molds made from steel that comply with the highest quality requirements and ensure flawless production with a high capacity throughout the entire product life cycle. Engineers use cutting-edge software to convert even the most complex product designs into precision plastic parts. The sophisticated mold designs comply with the most demanding of customer requirements.

Plastic injection molding

The Cicor Group designs and manufactures high-quality, precision plastic injection molding and offers plastic injection molding with vertically integrated secondary processes as well as the assembly of complete products. The portfolio includes 2K injection molding, insert molding, thin-wall molding/precision molding and micro molding plastic parts of 2 mm diameter with microstructure.
Research and development
The Cicor site in Bronschhofen develops innovative electronics and associated software for customers in the fields of medical technology and industry. Cicor supports you from the idea to the finished product. The development process is ISO9001 and ISO13485 certified and the site also meets the requirements for the development and production of accessories for mobile devices from a leading manufacturer.

Test engineering
Cicor has many years of experience in testing and developing product-specific tests and test systems, from in-circuit testing to complex functional test systems. Optimally, testing engineering is already integrated during the development phase, so that requirements for the subsequent test execution can be covered during product design.

Printed circuit board assembly
Cicor produces customer-specific electronic modules efficiently and in the highest quality. This covers the entire spectrum from small to large series. Thanks to the global production set-up with locations in Bronschhofen (Switzerland), Arad (Romania), Bedford (United Kingdom) and Thuan An City (Vietnam), Cicor offers cost-effective structures that can be tailored to the customer’s needs.

Box building and system assembly
The Cicor Group offers services up to and including the assembly of complex devices and systems. Cicor already supports customers in the idea and development of products suitable for production to ensure the most cost-effective production possible. With complete traceability through the verified quality management system, delivery quality is ensured at the highest level.

Printed electronics
The integration of the circuits into three-dimensional surfaces often eliminates the need to use an additional substrate. This efficient printing process allows lines and spacing up to 10 μm and a print density from <100 nm up to tenths of μm.
Products and services

Printed circuit boards

For over 50 years, Cicor has been developing and producing sophisticated flexible, rigid-flexible and rigid printed circuit boards, from the idea, through prototypes, to large-series production. Thanks to a comprehensive expertise in multilayer boards (MLBs), multi-chip modules (MCMs) and high-density interconnects (HDIs) Cicor develops innovative and reliable solutions for demanding applications in medical technology, aerospace and defence, building technologies and wearables.

Thin materials and line width and spacing down to 25 µm enable extreme miniaturization and ultra-HDI advanced solutions. The new DenciTec® technology opens up completely new possibilities. Innovative circuits can be produced by combining PCB processes with thin-film technology.
Flexible PCB
Flexible printed circuit boards (FPC) offer the highest level of 3D miniaturization. Very low bending radii in combination with Ultra-HDI (ultra-high density interconnect) make it possible to build increasingly smaller and highly integrated devices. Cicor has been a market leader in this field for many years and manufactures flex circuits with a layer count of 1 to 8.

DenciTec®
DenciTec® enables further miniaturization. Capabilities include line widths and spacings down to 25 μm with copper thickness of 20 +/- 5 μm on all conductive layers, laser-via diameters of 30 μm, annular rings with a diameter of 30 μm for the inner layers and 20 μm for the outer layers, copper-filled blind vias with the option of via stacking and vias-in-pads.

Rigid-flexible PCB
Combining the advantages of both rigid and flexible PCBs in one circuit board offers several benefits, including reducing the size of assemblies and enabling 3-dimensional installation of assembled PCBs. Using this technology is improving signal integrity and reliability, especially in environments where vibration, acceleration and other severe conditions are involved.

3D-MID
3D-MID (3-dimensional molded interconnect devices) technology makes it possible to integrate mechanical and electronic functions within one component in the smallest of spaces. The electronic circuit is integrated into the casing, significantly enhancing the compact design and functional density. Injection-molded circuit boards enable the process stages, assembly times and number of components to be reduced.

Rigid PCB
Rigid PCBs are available in many different varieties, differentiated by the number of layers, base materials used, construction methods, interconnection schemes as well as areas of use. Cicor offers rigid PCB with 1-20 layers with a clear focus on miniaturization in x, y and z axis.
Substrates and hybrid circuits

Thin-film substrates are used where conventional PCB technologies cannot provide an adequate technical solution. Rigid and flexible multilayer circuits with highest resolution (10 µm) are possible. Thin-film technology uses semiconductor and microsystem technologies to produce circuit carriers on ceramic or organic materials. Interconnection carriers (substrates) in thin-film technology enable extreme connection densities, high-precision geometries of conductors and insulator materials and high thermal conductivity, while offering maximum reliability.

Thin-film technology is impressive in terms of the usability, for example, of ceramic or quartz glass as a substrate material, and the high structural fidelity that can be achieved with tolerances up to ±2 µm for the track width. Cable lines in thick-film technology are installed in the screen printing process and then burned in. The use of ceramic as a substrate ensures maximum reliability even under the hardest environmental conditions. A thick-film circuit is far better than a standard printed circuit board in terms of temperature resistance and life cycle.
Rigid thin-film substrates
For decades, thin-film substrates based on rigid substrate materials have been produced and used for applications such as space travel, radar technology and sensor systems. In addition to the standard material Al₂O₃, which is available in various grades, aluminum nitride is also becoming increasingly more common, particularly in applications requiring increased thermal conductivity. Circuits are also produced on ferrite material or even glass, for example, which can be adapted to a wide variety of applications.

Flexible thin-film substrates
In the field of flexible thin-film substrates, the technologies and processes used for manufacturing circuits are the same as those used for rigid substrates. However, the emphasis here is on the use of organic materials, which are either processed from the liquid phase as insulators (or substrates) or which may already be present as film material. In this area, various forms of polyimide or LCP (liquid crystalline polymer) are primarily used as substrate material. When it comes to flexible substrates, the range of material thickness extends from a few micrometers up to several 100 µm, for example in LCP-based multi-layer circuits.

Thick-film substrates
Thick-film technology is a highly sophisticated technology for the production of wiring supports that has been in use for decades. Cable lines are installed in the screen printing process and then burned in. The use of ceramic as a substrate ensures maximum reliability even under the harshest environmental conditions. The main advantages of this technology include the use of ceramic as substrates with excellent heat conduction properties and the realization of printed resistors over a wide spectrum (mOhm to GOhm) with the possibility of producing any value using laser alignment. The option of active calibration of thick-film resistors after component assembly is also useful.
Production sites

**Arad, Romania**
The Cicor site in Arad offers manufacturing services for electronic products of consistently high-quality. The site supports its clients starting in the planning stage, guaranteeing the ideal outsourcing solution, tailored to the client’s specific needs over the entire product life cycle, from product development through series production to aftersales service. The site in Romania offers complete outsourcing solutions for the manufacturing of electronic component assemblies as well as complete devices and systems.

**Batam, Indonesia**
The Cicor site in Batam is a high-end manufacturer of precision plastic molded parts and mechanical assemblies for medical, industrial & automotive customer. The site is strategically located in Batam, which is just one hour away from Cicor site in Singapore. In combination with Singapore the site offers tool design and fabrication, plastic injection molding, vertically integrated secondary processes, assembly services and latest technology of spray paint processes. The production site has state-of-the-art manufacturing facilities and total 1'200 m² clean rooms (ISO class 7) for injection molding, assembly and packaging. The clean rooms are validated for RTU (ready-to-use) medical applications.

**Bedford, United Kingdom**
Originally part of a leading international electronics company, the Cicor site in Bedford was formed in 1995 as an independent UK based contract electronic manufacturing services provider with a unique combination of service and technological capabilities for high reliability markets and critical applications.

The business has evolved significantly and is now trusted by many market-leading global companies, particularly in the defence, space, communications, transportation and commercial avionics markets, as their long term manufacturing and engineering partner.

**Electronic manufacturing services**
- Printed circuit board assembly
- Test engineering
- Box building and system assembly

13.500 m² total floor space

**Certifications**
- ISO 9001
- ISO 14001
- OHSAS 18001/ISO 45001
- IATF 16949

**Electronic manufacturing services**
- Plastic injection molding
- Box building and system assembly

10.000 m² total floor space

**Certifications**
- ISO 9001
- AS 9100
- IATF 16949
- FDA-registered
- UL-registered

**Bedford, United Kingdom**
Originally part of a leading international electronics company, the Cicor site in Bedford was formed in 1995 as an independent UK based contract electronic manufacturing services provider with a unique combination of service and technological capabilities for high reliability markets and critical applications.

The business has evolved significantly and is now trusted by many market-leading global companies, particularly in the defence, space, communications, transportation and commercial avionics markets, as their long term manufacturing and engineering partner.

**Electronic manufacturing services**
- Engineering
- Printed circuit board assembly
- Box building and system assembly
- Test engineering

3.250 m² total floor space

**Certifications**
- ISO 9001
- AS 9100
- ISO 14001
- JOSCAR
The Cicor site in Boudry is a leading manufacturer of high-end printed circuit boards, using state-of-the-art processes. We have comprehensive expertise in producing sophisticated rigid, rigid-flexible and flexible multilayer circuit boards. Focusing on circuit miniaturization, we offer high-density and ultra-high-density interconnect (HDI and UHDI) PCBs. Together with their customers, specialists develop innovative and unique solutions, mainly for the medical, industrial and aerospace & defence markets.

Boudry, Switzerland

Cicor Digital Elektronik GmbH and Cicor Digital Tunisie S.a.r.l. develop and produce electronic assemblies, devices and systems for customers in the medical technology and industrial sectors at two sites in Thuringia (Germany) and one site in Borj-Cedria (Tunisia). The full range of electronics manufacturing services is available for the realization of customer projects. In addition to the core processes in SMT and THT manufacturing, additional services such as cable assembly and encapsulation technologies are also available.

Borj Cedria, Tunisia

The Cicor location in Bronschhofen offers complete outsourcing solutions for the development and production of electronic assemblies as well as complete devices and systems. Cicor develops and produces small and medium sized series of electronic assemblies and systems using state-of-the-art equipment at its Bronschhofen site. The location has extensive expertise in medical technology. In the newly created, protected assembly area of ISO class 8, medical devices with increased demands on the assembly environment are manufactured.

Bronschofen, Switzerland

Printed circuit boards
- Engineering
- Rigid PCB
- Flexible PCB
- Rigid-flexible PCB
- DenciTec®

Electronic manufacturing services
- Cable assembly

Electronic manufacturing services
- Engineering
- Printed circuit board assembly
- Box building and system assembly
- Test engineering

Printed electronics
- ISO 9001
- ISO 13485
- ISO 14001
- ISO 15378
- MFi partner
- FDA-registered
- UL-registered

Printed circuit boards
- Engineering
- Rigid PCB
- Flexible PCB
- Rigid-flexible PCB
- DenciTec®

5,000 m² total floor space

Electronic manufacturing services
- Cable assembly

Electronic manufacturing services
- Engineering
- Printed circuit board assembly
- Box building and system assembly
- Test engineering

Printed electronics
- ISO 9001
- ISO 13485
- ISO 14001
- ISO 15378
- MFi partner
- FDA-registered
- UL-registered

7,500 m² total floor space
Production sites

Buttlar, Germany

Cicor Digital Elektronik GmbH and Cicor Digital Tunisie S.a.r.l. develop and produce electronic assemblies, devices and systems for customers in the medical technology and industrial sectors at two sites in Thuringia (Germany) and one site in Borj-Cedria (Tunisia). The full range of electronics manufacturing services is available for the realization of customer projects. In addition to the core processes in SMT and THT manufacturing, additional services such as cable assembly and encapsulation technologies are also available.

Dresden, Germany

The Cicor site in Dresden offers the complete range of services for the development and production of electronic assemblies up to the box build. The industry focus is on medical technology and industry. Due to the availability of all common soldering processes, any mixed assembly on a printed circuit board can be implemented in a high-quality and cost-efficient manner. The site has 3 SMD production lines and thus offers both a high degree of flexibility and the capacity to quickly implement production in series quantities. With an extensive equipment of manual workstations, processes that cannot be automated can also be offered.

Radeberg, Germany

The Cicor site in Radeberg specializes in the manufacture of complex substrates using thick-film technology as well as microelectronic assembly on ceramics or printed circuit boards. The core industries are aerospace, defense, medical as well as demanding applications in the industrial sector. The services offered at the site include development support, prototype construction, series production and product qualification. Production in the clean room uses a wide range of packaging technologies such as chip bonding, wire bonding, vacuum soldering, sintering, SMD assembly and various encapsulation processes. The test stations for functional tests are developed and built in-house. Cicor Radeberg has 1,300 m² of clean rooms up to ISO Class 5 (Class 100).

Electronic Manufacturing Services
- Printed circuit board assembly
- Box building and system assembly

Electronic manufacturing services
- Engineering
- Printed circuit board assembly
- Box building and system assembly
- Test engineering
- 4,000 m² total floor space

Substrates and hybrid circuits
- Engineering
- Thick-film substrates
- Hybrid circuits
- 3,600 m² total floor space

Certifications
- ISO 9001
- ISO 13485
- ISO 14001
- IATF 16949
- ISO 9001
- ISO 13485
- KTA 1401
- EN 9100
Singapore

The Cicor site in Singapore is the technical excellence center for precision tool design and fabrication. With more than 30 years of experience in the production of technically complex molds and plastic parts in the micro molding industry.

The site Singapore site is also the Sales & Project Management arm of Cicor in Asia for turnkey EMS projects, providing one-stop development services from product conceptualization to final box building utilizing the "best in class" manufacturing practices.

Suzhou, China

The Cicor site in Suzhou offers tool design and fabrication and plastic injection molding. It is located in the SND-EPZ Sub-Industrial Park, 18 km from Suzhou City and 100 km from Shanghai’s port. The site is equipped with the latest state-of-the-art equipment, toolmaking and machinery park to produce customer specific products. Cicor has extensive expertise in 3D-MID (Molded Interconnect Devices) manufacturing and 100k molding clean room and 100k assembly clean room and full box-building capability and expertise in medical products.

Thuan An City, Vietnam

The Cicor sites in Thuan An City offer printed circuit boards assembly and box building including plastic injection molding services. The sites are located 20 km from Ho-Chi-Minh-City (Saigon) in the Vietnam - Singapore Industrial Park and host the latest, state-of-the-art machinery for printed circuit board assembly (PCBA). The production sites serve customers in a variety of sectors, including medical, industrial and transport as well as high quality consumer goods. The sites are ISO certified and comply with the RoHS directive.

Electronic manufacturing services

- Tool design and fabrication
- Plastic injection molding
- 3D-MID

Electronic manufacturing services

- Printed circuit board assembly
- Plastic injection molding
- Box building and system assembly

Electronic manufacturing services

- ISO 9001
- ISO 14001
- IATF 16949

- ISO 9001
- ISO 13485
- IATF 16949
- UL-registered

- ISO 9001
- ISO 13485
- ISO 14001
Cicor Digital Elektronik GmbH and Cicor Digital Tunisie S.a.r.l. develop and produce electronic assemblies, devices and systems for customers in the medical technology and industrial sectors at two sites in Thuringia (Germany) and one site in Borj-Cedria (Tunisia).

The full range of electronics manufacturing services is available for the realization of customer projects. In addition to the core processes in SMT and THT manufacturing, additional services such as cable assembly and encapsulation technologies are also available.

Ulm, Germany

The Cicor site in Ulm specializes in the manufacture of thin film circuits on rigid and flexible substrates, the development of new processes, the evaluation of new materials for thin film technology and has extensive development expertise in this field. Manufacturing takes place in a clean room using microelectronic manufacturing processes such as lithography, sputtering, evaporation, etching, electroplating and passive resistance matching. Other machining operations include laser drilling of holes, laser contouring, and sawing as a separation step from multiprocess to chip. Production and processes are designed for maximum flexibility to meet special requirements for substrate materials and process combinations.

Substrates and hybrid circuits
- Engineering
- Rigid thin-film substrates
- Flexible thin-film substrates
1.656 m² total floor space

Products & services
- ISO 9001
- EN 9100
- JOSCAR

Wangs, Switzerland

The Cicor site in Wangs specializes in the manufacture of thin-film circuits on rigid and flexible substrates and has extensive manufacturing expertise in this field. Manufacturing takes place in a clean room using microelectronic manufacturing processes such as lithography, sputtering, evaporation, etching, electroplating and passive resistance matching. Other machining operations include laser drilling of holes, laser contouring, and sawing as a separation step from multiprocess to chip. Production and processes are designed for maximum flexibility to meet special requirements for substrate materials and process combinations.

Substrates and hybrid circuits
- Engineering
- Rigid thin-film substrates
- Flexible thin-film substrates
2.500 m² total floor space

Certifications
- ISO 9001

Wutha-Farnroda, Germany

Cicor Digital Elektronik GmbH and Cicor Digital Tunisie S.a.r.l. develop and produce electronic assemblies, devices and systems for customers in the medical technology and industrial sectors at two sites in Thuringia (Germany) and one site in Borj-Cedria (Tunisia).

The full range of electronics manufacturing services is available for the realization of customer projects. In addition to the core processes in SMT and THT manufacturing, additional services such as cable assembly and encapsulation technologies are also available.

Electronic Manufacturing Services
- Printed circuit board assembly
- Box building and system assembly

Substrates and hybrid circuits
- Engineering
- Rigid thin-film substrates
- Flexible thin-film substrates

1.656 m² total floor space

Certifications
- ISO 9001
- ISO 13485
- ISO 14001
Quality management

By consistently focusing on the requirements of its customers and comply within internationally recognized standards, the Cicor Group ensures that customers receive the most reliable and high-precision products possible.

The Cicor Group quality data management system goes far beyond statutory requirements and has an incredible range of functions. These are configured in line with specific customer requirements, ensuring seamless transparency in all production and after-sales processes across all sites.

All Cicor sites are audited at regular intervals, with processes constantly being reviewed and analyzed.

To see a current overview of all certificates, please go to www.cicor.com.

ISO 9001
Quality management system

ISO 13485
Quality management system for medical products

ISO 14001
Environmental management system

ISO 14644
Cleanroom class 7

ISO 15378
Primary packaging materials for medicinal products

ISO 17025
Quality management system for testing and calibration laboratories

EN 9100
Quality management system for the aerospace industry

AS 9100
Quality management system for the aerospace industry

KTA 1401
Quality assurance in nuclear power plants

OHSAS 18001/ISO 45001
Occupational health and safety management system

AQAP 2110
NATO quality assurance requirements for design, development and production

IATF 16949
Quality management system for the automotive industry

FDA
Registered contract manufacturer standard 21CFR820

MFi
Partner in the Made for iPhone, iPod and iPad program

JOSCAR
Quality requirement for the aerospace and defence industry
### Electronic Manufacturing Services

<table>
<thead>
<tr>
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### Printed electronics

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