

More Information in Less Clicks from our Website



Our on-line product information was recently enhanced with these improvements:

- Navigation that will get you around the site faster, with better menus and new breadcrumb trails
- A greatly improved process for selecting Tyco Electronics products
- Product line information with more details to aid in your selection process
- Thousands of product photos to help identify what you need
- Immediate access to documents, drawings and CAD models from part details pages
- Mating part information for select product lines, with more added each week
- Eight language translations of the main site



Automotive MCON-1.2 Contact System Features Eight Points of Electrical Contact

Tyco Electronics' next-generation MCON-1.2 contact system brings added reliability to vibration-prone automotive applications. Available in both sealed and unsealed versions.

Product Features

- Eight defined contact points improve vibration resistance and increase reliability
- Surface: SnAg (Tin - Silver), Ag (selective Silver), Au (selective Gold)
- 15 Ampere @ 80°C at 1.5mm² wire size
- -40°C to +150°C operating temperature
- Wire size from 0.14 to 1.5 mm²

Applications

- Automotive electronics

Welcome to the first issue of Product Innovations, our quarterly update on the latest new product and technologies from Tyco Electronics. There is no industry that evolves as rapidly as electronics. And that means you need a never-ending stream of innovative ideas and new component products to support your next design effort. We're ready to help enable your next innovation – with a robust new product development effort that is second to none in the electronics industry.

The products presented on these pages and in future issues cross many different component categories – including connectors, relays and circuit breakers, active and passive fiberoptic components, wireless products, power components, resistors and inductors, motors and myriad others across 23 product segments.

Should something spark your interest, you can quickly link to more information at www.tycoelectronics.com/productinnovations. From this page you can also link to even more new products by clicking on www.tycoelectronics.com/aboutus/news. And of course your local Sales Engineer is ready to support you throughout your specification and design-in process. We want to help you make your next generation of products successful.

Quality Evident in Land Grid Array (LGA) Sockets for Desktop and Server Microprocessors

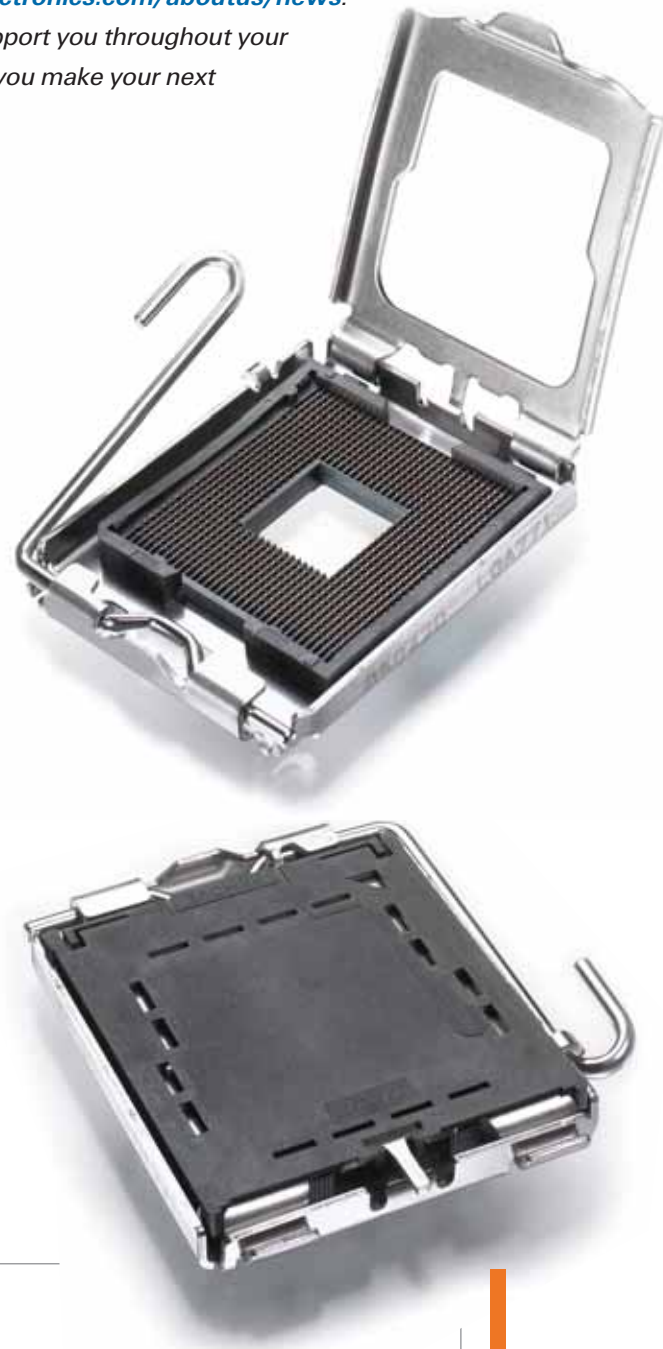
Tyco Electronics' Land Grid Array 771 (LGA771) Socket J for Intel Xeon CPU's and Land Grid Array 775 (LGA775) Socket T for desktop computers help to ensure microprocessor protection for longevity of CPU connection. These quality sockets are built to endure and protect for consistent performance.

Product Features

- Optimized contact tip geometry reduces risk of contact damage during handling and package installation
- Single lever handle for CPU actuation
- Stainless steel load plate securely retains microprocessor package in socket
- Socket housing ribs and Pick-and-Place cap protect contacts from over-bending and contamination
- Solder ball SMT for PCB attachment
- High temperature thermoplastic housing material

Applications

- Intel based Pentium 4 desktop computer applications (LGA775)
- Intel Xeon CPU's for server applications (LGA771)



In This Issue

New Products

More Information in Less Clicks in our Product Catalog

Wireless Technologies and the Emerging WiMAX Standard



The Complete Solution for ATCA and MicroTCA Standards

With newer ATCA innovations and the standardization of the MicroTCA markets, Tyco Electronics' diverse ATCA and MicroTCA product line demonstrates our readiness to supply complete solutions to both present and upcoming telecommunication industry demands.

Product Features

- Front and rear I/O connectors
- Zone 1, 2, and 3 connectors
- Board to board, backplane, fiber optic, and power connectors
- Thermal products and services
- Power distribution and management
- Backplane and chassis assemblies

Applications

- Base stations
- Radio network control
- SGSN and GGSN
- Home location register
- IP multimedia subsystem, media, application, and blade servers
- Media gateways, and soft and multi-service switches



10 Gig Connections Just Got a Whole Lot Easier

Selecting a shielded solution just got a lot easier with new SL Series AMP-TWIST modular jacks, the quickest way to terminate the industry's premier fully compatible 10 Gig connector.

Product Features

- Terminations are fast, consistent, precise and reuseable
- Accommodate 10GBase-T (IEEE 802.3an) on 100 m channels
- Termination times are fastest in the industry
- Patented shield clamp simplifies shield connection
- Integrated strain relief
- Permits wiring to T568A or T568B

Applications

- Secure applications
- Shielded networks



Harnesses for Military, Aerospace & Industrial Applications

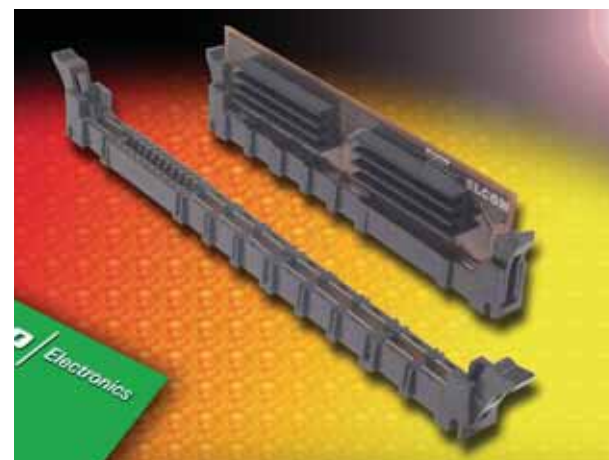
Raychem Integrated Harness Assemblies integrate Raychem and other Tyco Electronics products into a fully assembled harness. Ready-to-install harness assemblies for applications that require performance in a tough environment.

Product Features

- Utilize proven Raychem products such as wire and cable, heat-shrinkable tubing, molded parts, identification products, adapters, adhesives and many more
- Harness design service from your electrical listing and routing information
- Prototype and production builds
- HarnWare harness design program

Applications

- Defense
- Aerospace
- Industrial



Density Doubled Contact Spacing of Voltage Regulator Modules (VRM) Connectors

Tyco Electronics' Mini CROWN EDGE card edge connector family for Voltage Regulator Modules (VRMs) has been enhanced to offer greater choice in signal contact spacing and connector length. Higher density signal contacts on .050-inch centerline provide tighter packaging. Mini CROWN EDGE .100-inch centerline product is still available.

Product Features

- ELCON CROWN BAND power contacts rated at 25 Amps
- .050-inch center signal contacts
- Low 7 mm profile
- Low inductance enables higher slew rates
- SMT and solder tail terminations

Applications

- 1U/2U Voltage Regulator Modules (VRMs)



Universal MATE-N-LOK Connector for Sealed Bulkhead Applications

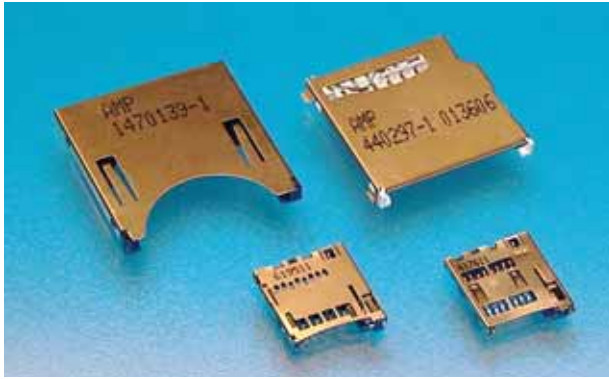
Bulkhead mount Universal MATE-N-LOK connector that facilitates sealed panel mounting and works with existing Universal MATE-N-LOK seals to provide a fully-sealed interconnection system.

Product Features

- Available in 4, 6, 9 and 12 positions
- Sealed, flange mount design
- Mates to standard Universal MATE-N-LOK plug housings
- Accepts standard Universal MATE-N-LOK contacts
- Works with standard Universal MATE-N-LOK connector interface and wire seals
- Anti-rotation feature aids installation

Applications

- Vending machines
- Industrial machinery
- Lighting
- HVAC equipment



SD Memory Card Connectors Provide Compact Digital Storage Solutions

Tyco Electronics is an industry leader in the standardized SD memory card reader market through the growth of its secure digital connector product line which includes connectors for SD, Mini SD, and Micro SD memory card products. Tyco Electronics is an executive board member of the SD Association (SDA) standards committee.

Product Features

- Three different configurations, full size SD, Mini SD, and Micro SD support various equipment sizes
- High-speed data transfer rate
- Designed for ease of customer use with available push/push mating

Applications

- Digital cameras and camcorders
- PDA's
- Cell phones
- MP3 players
- Photo printers
- Computers



FAKRA IV RF Connector Family

The new-generation FAKRA IV RF product family was developed for automotive AM/FM, GPS, and SDARS cable assemblies and PCB header applications. The connectors meet USCAR-17 and DIN 72594-1 specifications. Multiple keying and color variations are available.

Product Features

- Ergonomically designed larger thumb pad and an improved latch with anti-overstress protection and audible click
- Accommodate RG-62, RG-62U/Mod, RG-58, RG-58 Low Loss, RG-71, RG-71 U/Mod, RG-174, RG-316, 1.5CS-QEHV cables
- Accommodates coaxial cables with 180-degree or 90-degree cable exit
- Slots offer flexibility to accommodate multiple body clips
- Fast and easy termination using proven tooling

Applications

- AM/FM, GPS, and SDARS cable assemblies
- PCB header applications



MRJ21 Connector System Offers High-Density Gigabit Ethernet Solution

Tyco Electronics' MRJ21 next generation input/output (I/O) interconnect products provide density and space saving solutions for 10/100 or Gigabit Ethernet (GbE) RJ45/RJ21 applications. Tyco Electronics provides customer solutions through the complete line of MRJ21 products including cable assemblies, PCB connectors, cassettes, and patch panels.

Product Features

- Dense design – four times the port density of 2x6 stacked RJ45 modular jack and three times the density of an RJ21 connector
- Fully shielded system controlling electromagnetic interference (EMI)
- Differentially paired footprint and contact layout to reduce crosstalk assures efficiency
- Cleaner cabling solutions and jackscrews for positive latching improve wiring closet management
- Variety of PCB connector options
- Customized options for integrated magnetics

Applications

- Modular data center/SAN (Storage Area Network) connectivity
- Core and edge routers
- Digital cross connects
- Gigabit Ethernet, 10/100BASE-T
- DSLAM (Digital Subscriber Line Access Multiplexer)
- Almost any place modular plugs are used today



Gapless Screened Surge

Arrestor Protects Up to 24kV

Screened surge arrester is integrated in a coupling connector body. Used in electrical power networks, it protects against current surges to 5 kA and up to 24kV.

Product Features

- Tested in accordance with IEC60099-4
- State of the art - gapless design
- Superior protection margins
- Low residual voltages
- Excellent short circuit performance
- Maintenance free

Applications

- Medium voltage separable cable connection



New Low Profile Multi-Function Digital Metering System

Multi-function Crompton Instruments Integra 1630 digital metering systems provide high accuracy 0.2% measurement, display and communication of all major electrical and power quality parameters including total harmonic distortion (THD) measurement up to the 31st harmonic.

Product Features

- Low profile product case
- High contrast red LED display
- Two pulsed and single Modbus output
- 0.2% accuracy
- Fully programmable VT and CT ratios
- Simultaneous monitoring of up to 35 electrical and power parameters

Applications

- Switchgear distribution systems
- Control panels
- Embedded generation
- Energy management
- Building management
- Utility power and motor monitoring



M/A-COM Extends Family Of Low-Cost HBT High Linearity Driver Amplifiers

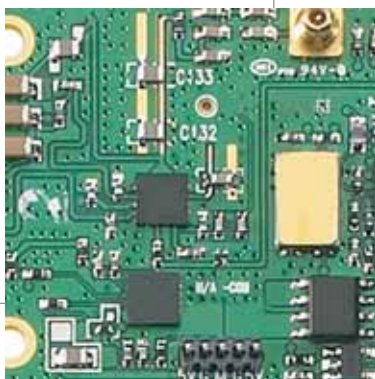
Two-stage driver amplifiers with a broad frequency range and high linearity make this product family ideal for a variety of wireless applications including base stations, WiMAX and WiBro.

Product Features

- High linearity power amplifiers
- 250 - 4000MHz
- Reliable HBT design
- RoHS compliant

Applications

- WiMAX/WiBro
- Basestations



New Compact, High Power S-band Telemetry Transmitter

Lower S-band, one-watt FM telemetry transmitter is ideally suited for rugged, space limited applications including smart munitions, unmanned aerial vehicles (UAVs), missiles and other harsh environment commercial and industrial testing applications.

Product Features

- 1 Watt, S-band transmitter
- Rugged, compact design
- High efficiency

Applications

- Smart munitions and missiles
- Unmanned Aerial Vehicles (UAVs)
- Harsh environment applications



Reliable, Low-Cost and Space-Efficient Distributed Power Plant

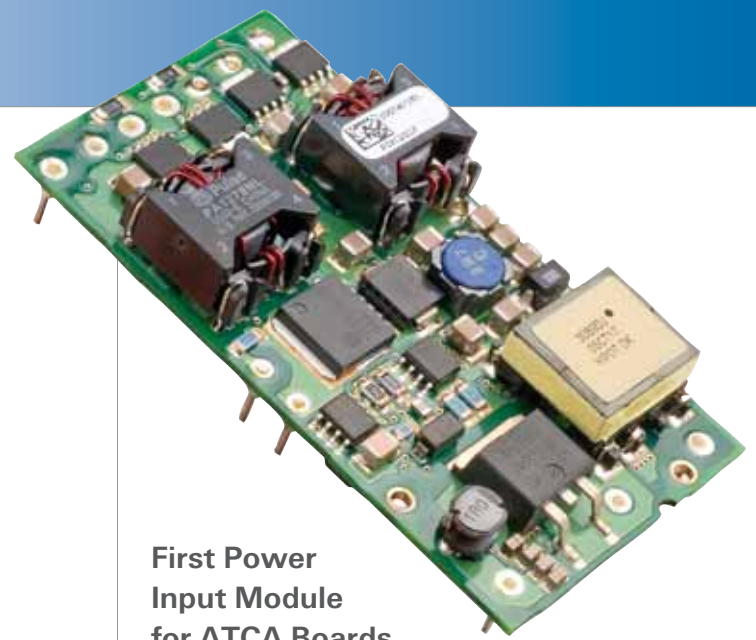
The 48V CPS 6000 Plant is an extremely flexible 23-inch rack-mount power system for use in wireless huts, vaults and CO applications, allowing effective solutions to current power requirements with low initial cost and managed future growth.

Product Features

- AC and DC distribution options
- Low voltage load disconnect and low voltage battery disconnect options
- Class B EMI
- VRLA and lithium-ion battery support
- Multiple frame offerings
- Modular plug-and-play rectifiers

Applications

- Central office
- Distributed power
- BDFB replacement
- -48V wireless huts and CEVs



First Power Input Module for ATCA Boards

The PIM200 provides a low-cost, quick, simple and elegant power architecture solution for a wide variety of complex power requirements on ATCA boards.

Product Features

- 8W of isolated auxiliary power for IPM (3.3V or 5V)
- Hot-swap and inrush control
- Input undervoltage and overvoltage protection
- Integrated EMI filter designed to meet CISPR class B limits
- 72V charging current for holdup/bulk capacitors
- Overcurrent and overtemperature protection

Applications

- Telecom central office equipment
- ATCA front board/blade



Front-end Power Supply for Distributed Power Designs

The Compact Power Line (CPL) Platform is a high-density, cost-efficient, and feature-rich 48Vdc power source that can be used in many diverse and global applications including powering data-networking equipment such as routers and switches.

Product Features

- DC output overvoltage, overcurrent, overtemperature protections
- Redundant, parallel operation with active load sharing
- AC input overvoltage and undervoltage protections
- Power 48 - 58Vdc, 1300W at 100-120Vac; 1800W at 200-240Vac
- Compact 1-RU form factor providing 20W/in³
- SMBus/PMBus compliant dual I2C and RS485 SB communications

Applications

- VoIP/soft switches and routers/switches
- LAN/WAN/MAN applications
- SAN/NAS/iSCSI applications
- Server and storage applications
- Telecommunications equipment
- 48Vdc distributed power architectures



New EMI Filter Has Tubular Design

The WG Series is a cost effective, high performance tubular filter, and offers a broad range of low frequency common mode performance in six standard filter versions.

Product Features

- Industry standard tubular design - Diameter: 1.49 inch
- Low cost
- High performance - 16 A @250 VAC 50/60 Hz - 0.05 - 30 MHz Performance Level
- Six standard versions with insertion loss from 3-6 dB
- Full agency approvals (UL, CSA, VDE)

Applications

- Household appliances
- Motor controllers
- Office equipment
- Test and measurement equipment



M/A-COM Integrated RFID Antenna and Reader Systems

M/A-COM provides integrated RFID stands and full turnkey tested RFID systems with flexibility for a variety of RFID applications.

Product Features

- Flexible antenna and reader systems
- Available as antenna stand or full reader system
- Turnkey systems and support

Applications

- Dock door RFID portals
- Inventory tracking
- Capital equipment tracking
- Medical applications
- Automation



Elo TouchSystems Offers New 1529L 15" LCD Touchmonitor and Touchcomputer

The Elo 1529L 15" LCD touchmonitor and touchcomputer are designed for touch from the ground up. They are available with optional peripherals including a three-track MSR and customer rear-facing display. The 1529L touchmonitor is also available with a biometric recognition device. Both are available with industry-leading technologies.

Product Features

- Higher brightness, better contrast, and wider viewing angle than most 15" LCD displays
- Cables hidden from user's view
- Built-in speakers located in display head
- Mounting holes on base bottom for tabletop security
- Worldwide agency approvals

Applications

- Point of service
- Point of sale (POS)
- Loyalty systems
- Kiosk information systems
- Gaming/amusement
- Light industrial



Elo TouchSystems Offers Family of Entry-Level LCD Touchmonitors

Elo offers a family of entry-level touchmonitors as part of its expanding 1000 Series. The family includes 12", 15", 17" and 19" LCD desktop touchmonitors that are cost-effective touch solutions for the retail and hospitality markets. The space-saving touchmonitors are designed for touch with Elo's proven expertise and reliability built in.

Product Features

- Economical and reliable
- Sealed touchscreen
- Dual serial/USB interface
- Removable base and VESA mounting option
- Mounting holes on base bottom for tabletop security
- Controls on the side rather than the front, plus lockout function for public use

Applications

- Point of sale (POS)
- Point of service
- Loyalty systems
- Countertop kiosk information systems



M/A-COM Provides ThingMagic RFID Readers

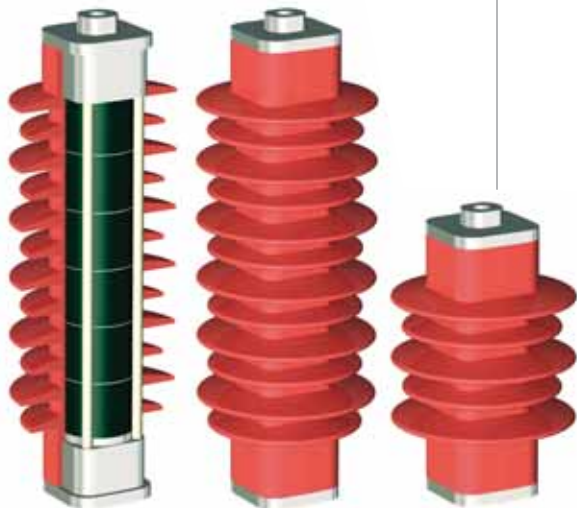
M/A-COM provides multi-protocol fixed and embedded readers powered by ThingMagic. They can read any type of tag and are software configurable so your equipment does not become obsolete with the future evolutions of RFID technology.

Product Features

- Reads any type of tag
- Software configurable
- Multi-protocol

Applications

- RFID fixed reader applications
- RFID printer and labeling applications



HDA-MA Series Medium Voltage Surge Arrester

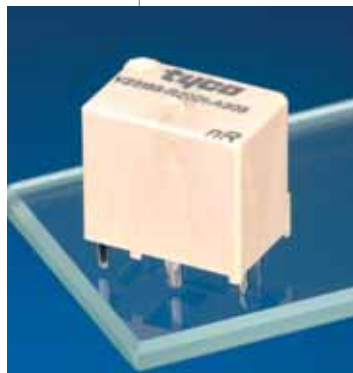
Outdoor Surge Arrester for 3-29kV medium voltage protects MV networks and equipment from lightning and switching surge related overvoltages.

Product Features

- Superior protection margins and low residual voltages
- High energy handling
- Superior zinc oxide varistors
- Open cage design for safe non-shattering short circuit behavior
- Gapless design with direct molded housing to prevent moisture ingress
- High performance – withstands mechanical stresses, vibration and impacts

Applications

- In areas with relatively high iso-keranic levels
- Transition from end of MV-distribution overhead lines to transformers
- Cable end terminations at the end of MV-distribution overhead lines
- Transition from end of MV-distribution overhead lines to switchgear
- Indoor use to protect motors and generators



Nano Relays: First Insert-Molded Automotive Relays

The new Nano Relay Family is the benchmark for miniaturization of Printed Circuit Board (PCB) relays.

Product Features

- Smallest automotive PCB relays in their respective classes
- Twin Nano Relay requires only 157 mm² of PCB area (15.4 mm x 10.2 mm)
- Two independent coil systems inside the Twin Nano Relay provide maximum performance in minimum space
- Single Nano Relay requires only 81 mm² of PCB area (7.9 mm x 10.2 mm)
- Low 14 mm height

Applications

- Automotive electronic control units with high relay content
- Twin Nano Relay is optimized for motor reverse applications



Custom Labeling & Identification Products

Tyco Electronics' wide range of identification products outlast and perform in the most extreme indoor/outdoor conditions. Our high quality materials and adhesives meet or exceed industry standards. We specialize in custom and pre-printed adhesive backed labels that support the needs of aerospace, electronics, rail and most other industries.

Product Features

- Design new, or use existing customer-specific logos, artwork and brand identification
- Color matching
- Custom shapes
- UL and CSA certified base materials
- Ability to hold tight tolerances

Applications

- Product/part identification
- Company branding
- Labeling equipment
- Labeling electronics
- Component traceability
- General labeling



Tyco Electronics Now Offers UID Labeling Program

The UID program is designed by the Department of Defense (DOD) to enhance total asset visibility, improve lifecycle item management and accountability, and enable clean financial audits. UID DataMatrix is a globally unique mark that ensures integrity and data quality throughout its life. The technology used to mark an item is the 2D DataMatrix ECC 200 symbol.

Product Features

- Design - Tyco Electronics software & hardware
- Print - T300 series and T400 series thermal print high quality DataMatrix marks
- Read - BSC-200 and VLD-100 are both two dimensional readers that read the DataMatrix symbols
- Validate - VLD-100 simple point and shoot imager that validates the UID constructs
- Verify - VRF-100 fixed mount verifier that grades the UID code for its quality conformance

Applications

- Mil/Aerospace MIL STD 130 specifications



PLCD Travel Sensor Detects Automobile Clutch Position

Tyco Electronics' clutch master cylinder travel sensor uses contact-less technology for clutch position detection. No mechanical wear makes this sensor technology ideal for high-reliability applications.

Product Features

- Based on Tyco Electronics' PLCD technology (Permanent magnetic-Linear-Contactless-Displacement)
- Permanent magnet, located at the piston rod, serves as the target object, the position of which is detected through the hydraulic cylinder wall
- Position information transmitted as an analog ratiometric signal
- Accurate measurement in demanding automotive applications
- Mechanical wear is completely avoided

Applications

- Automotive applications



24 GHz Short-Range Radar Sensors for Driver-Assist Systems

Tyco Electronics' 24 GHz short-range radar sensors for driver-assist systems help improve safety and comfort functions in brake-assist and pre-crash vehicle applications.

Product Features

- Small dimensions
- Hidden behind facia
- Multi-application capability
- Automotive interface with pre-tracked object information
- Designed for high-volume production

Applications

- Driver-assist systems: Adaptive Cruise Control, Stop & Go and parking aid



New Rocker Switch Handles Up To 21 Amps

This normally open half-rocker 21-Amp "tamper" switch is designed for furnace, air cleaner, air conditioner, power control panel and other equipment door applications.

Product Features

- 21 Amp current rating
- 6,000-cycle life rating
- Normally open contact design
- RoHS compliant

Applications

- HVAC equipment
- Air cleaners, air handling equipment
- Power control panels



Compact Slow Blow Surface-mount Fuses Handle High Currents

Raychem Circuit Protection RoHS compliant slow blow surface-mount fuses feature industry standard 1206 chip sizes, high reliability and strong arc suppression characteristics. The fuse's monolithic, multilayer design helps provide some of the highest current ratings available in the 1206 footprint and enhances high temperature performance.

Product Features

- RoHS compliant
- Monolithic multilayer design
- High temperature performance
- -55°C to +125°C operating temperature range
- Time delayed design prevents nuisance openings in pulsed and high inrush current applications
- Small size with high current ratings

Applications

- Small motors systems
- Portable electronics
- Input power ports
- Power over Ethernet (PoE)
- Test equipment
- POL converter protection



Introducing Integrated Overcurrent/Overvoltage Protection Device for Telephony and VoIP

The newly introduced Raychem Circuit Protection 2Pro device series features integrated overcurrent/overvoltage circuit protection technology designed to help prevent damage to telephony communications equipment.

Product Features

- Helps equipment comply with UL 60950 and remains operational after specified tests
- Overcurrent and overvoltage protection in a single component
- Resettable overcurrent protection
- Provides ESD protection
- UL 497A listed protector (#E258475)
- RoHS compliant

Applications

- Cordless telephones
- VoIP gateways
- Fax machines
- Data modems
- Set-top boxes
- Security systems

Technology Focus:



RF Components for WiMAX Applications

Wireless Technologies and the Emerging WiMAX Standard

Tyco Electronics' Wireless business is a leading supplier of critical communications systems and equipment for select public safety, utility, federal and commercial markets. Long recognized as a pioneer in microwave and radio frequency (RF) technology, Tyco Electronics Wireless is also a leading developer and high-volume manufacturer of RF, microwave and millimeter wave semiconductors, components and technologies. Holding hundreds of patents in the field, Tyco Electronics Wireless is known internationally as an expert technology innovator, integrator and manufacturer. Some of the major markets the business currently serves are wireless communications, aerospace & defense and automotive, among others.

One technology standard that is becoming a growth engine for the entire microwave and RF industry is WiMAX, a standards-based wireless technology that can provide higher-speed broadband connections over longer distances than WLAN. WiMAX has long been championed by a number of large OEMs and in recent years, by many leading service providers. The development and adaptation of the WiMAX standard over the next decade will fuel tremendous growth and allow all areas of the world to increase their broadband penetration. In addition to the new demand, thousands of base stations have already been deployed. By adding WiMAX capabilities, providers can instantly grant customers an entirely new menu of data, multi-media and Voice-over-IP services.

One of the major technology development initiatives of Tyco Electronics Wireless is the design and development of

products and technologies to take advantage of the shift in the microwave and RF industry from analog to digital technology. Currently, client devices need to access multiple wireless networks each having multiple protocols. In the future, these devices may also need to access emerging broadband technologies, such as Wi-Fi, WiMAX and 802.20, enabling higher data rates in a mobile environment. This presents significant technical challenges to the underlying microwave semiconductor technologies to meet the cost, performance and power consumption demands of these portable products. Simply populating the "smart" client with numerous single-mode, single frequency transceivers will not meet the cost, battery life or size demands of the user.

The Tyco Electronics Wireless business has many answers to this challenge. DTx (Digital Transmitter Technology) is a new architecture of wireless connectivity products that provide a single handset transmitter solution for GSM, GPRS, EDGE and W-CDMA networks, enabling true multi-band, multi-mode operation.

Tyco Electronics Wireless is a member of the WiMAX Forum, an industry-led, non-profit corporation formed to promote and certify compatibility and interoperability of broadband wireless products based on the IEEE 802.16 standards. Through Tyco Electronics Wireless' participation in the WiMAX Forum, all of our applicable products will be interoperable with all WiMAX Certified equipment.

As a company with a long, deep history in microwave and RF applications, in both analog and digital integrated products, Tyco Electronics Wireless offers a tremendous amount of experience and expertise designing frequency management solutions that are required when deploying RF systems. The business is developing and introducing new semiconductors and hybrid components to support the Global WiMAX standards. There is currently a broad component level offering of amplifiers, switches, mixers, attenuators and ferrites that address the popular frequency bands. To augment this component offering, system level development is underway to introduce WiMAX compliant infrastructure and user terminals. The business has deep, direct knowledge on how to network those nodes together (analog and digital) while understanding how to best generate, transmit and receive RF power.

Joe Thomas, vice president of Tyco Electronics Wireless comments that: "Wherever you look, wireless is becoming pervasive. People are coming up with new ways to use wireless to get things done quicker, cheaper and more effectively for all kinds of consumers. We plan to be in a unique position to help that trend become reality as we look forward to playing a central role in the adaptation of the WiMAX standard, both domestically and around the world."



CERTI-CRIMP Hand Tool Performance in a Battery-Powered Unit

These ergonomically-designed battery-powered tools are versatile, convenient crimpers for factory or field use. They're compatible with a broad range of crimp dies that are fully interchangeable among tools and tool platforms.

Product Features

- Completely portable, over 100 crimps per charge
- Terminates wires to 10 AWG
- Lightweight - 1.57 kg [3.48 lb]
- Kit includes tool, two batteries, charger
- Pressure-sensitive cycle control

Applications

- Wire subcontractors
- Remote field applications
- Aerospace applications
- Electrical manufacturing service providers



New Applicator Accessory Helps Track Crimp Tool Usage

The EDGE Applicator Counter tracks wearable tool usage for the most effective maintenance planning. Performing maintenance at measured intervals helps avoid breakdowns and rejects caused by tool wear or mid-adjustments.

Product Features

- Completely electronic operation - no moving parts
- Alarm indicates when maintenance is required
- Mounts on most Tyco Electronics applicators
- Wireless interface transfers counts to PC using optional software
- 10-year battery life
- Easy-to-read LCD display

Applications

- Wire harness shops
- Electrical manufacturing service providers