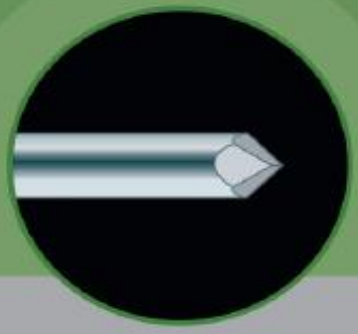
ASI INDUSTRIAL

CONTACT PRODUCTS GROUP

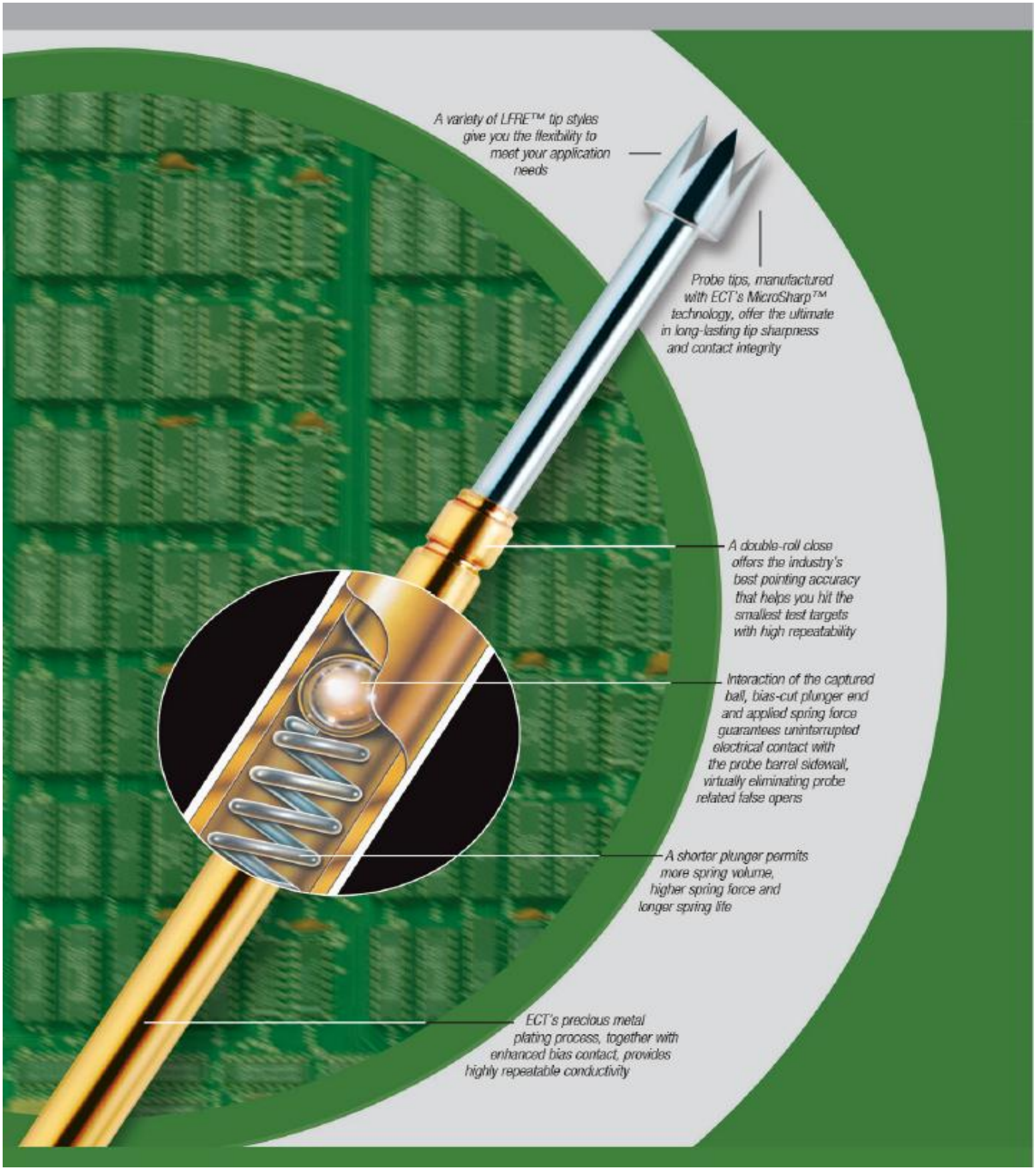
LFRE™



Lead-Free POGO® Spring Probes

ECT CONTACT PRODUCTS
Everett Charles Technologies
A Cohu Company

WWW.ETC-CPG.COM


A variety of LFRE™ tip styles give you the flexibility to meet your application needs
Probe tips, manufactured with ECT's MicroSharp™ technology, offer the ultimate in long-lasting tip sharpness and contact integrity
A double-roll close offers the industry's best pointing accuracy that helps you hit the smallest test targets with high repeatability
Interaction of the captured ball, bias-cut plunger end and applied spring force guarantees uninterrupted electrical contact with the probe barrel sidewall, virtually eliminating probe related false opens
A shorter plunger permits more spring volume, higher spring force and longer spring life
ECT's precious metal plating process, together with enhanced bias contact, provides highly repeatable conductivity

ECT® LFRE: Spring Probes - Cleaner Environment

The Lead Free Challenge

Lead free solder can cause many problems in-circuit testing. Lead free solder has a higher reflow temperature, which can result in harder and stickier solder flux resin and a thicker, harder oxide layer. This thicker layer of resin and oxide is more difficult to penetrate and increases wear on the pogo pin. Lead free solder resin and oxides can also increase debris transfer to spring probes. These are many of the issues found in OSP and No-Clean applications. ECT has developed a test probe, specifically designed to solve these problems.

ECT Lead Free POGO® Spring Probe Series

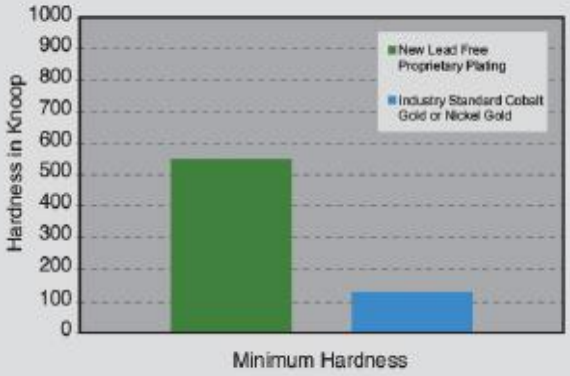
ECT's Lead Free probe line incorporates a number of features that will significantly reduce the issues that arise when switching to lead free solder as well as those contact issues that arise with OSP and No-Clean solder flux.

- **Proprietary Plating**
  Our Lead Free probe incorporates a harder and slicker plating that not only resists wear but also reduces solder and debris transfer.
- **POGOPlus™ Bias Ball Design**
  The POGOPlus internal bias ball design guarantees uninterrupted electrical contact with the probe sidewall virtually eliminating probe related false opens.
- **Range of Spring Force Choices**
  Compared to competitors' products, which offer limited spring force options, ECT's LFRE POGO spring probes are available in a variety of spring force choices in 100 mil, 75 mil, 50 mil and 39 mil centers.
- **Pointing Accuracy**
  ECT's Lead Free probe incorporates a double roll close, which offers the industries best pointing accuracy. Increased pointing accuracy is of benefit when using Lead Free solder and/or No-Clean as the probe is less likely to touch the edge of the pad where the solder flux accumulates.

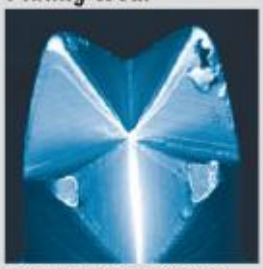
ECT's Proprietary Lead Free Plating vs. the Industry Standard

The industry standard for plated spring pins is gold electroplate alloyed either with cobalt of nickel to enhance its hardness. Hardness is increased from 90 Knoop for 99.7% pure electroplated gold to 130 to 200 Knoop when alloyed with nickel or cobalt. ECT's proprietary lead free plating is significantly harder than the industry's standard gold plating. Our proprietary plating has a hardness range of 550 to 650 Knoop. This makes the probe tips more durable and less susceptible to solder and material transfer.

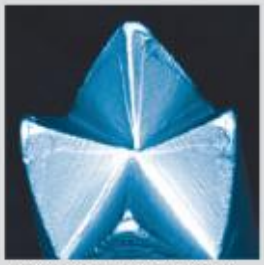
Hardness Comparison of Lead Free Proprietary Plating to the Industry Standard



Plating Wear

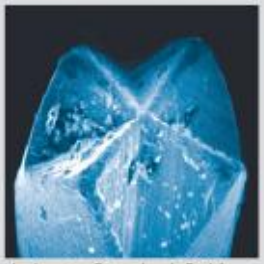


Industry Standard Gold



ECT's Proprietary Plating

Contaminant Transfer



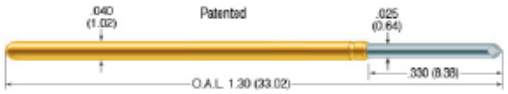
Industry Standard Gold

ECT's Proprietary Plating

A	B	H	H79	I
Ø .060 (1.52)	Ø .034 (0.86)	Ø .060 (1.52)	Ø .079 (2.01)	Ø .033 (0.84)

I8	I15	I35	I40	J	L	L18	L36	T	T1
Ø .033 (0.84)	Ø .033 (0.84)	Ø .034 (0.86)	Ø .033 (0.84)	Ø .025 (0.64)	Ø .050 (1.27)	Ø .018 (0.46)	Ø .034 (0.86)	Ø .060 (1.52)	Ø .030 (0.74)

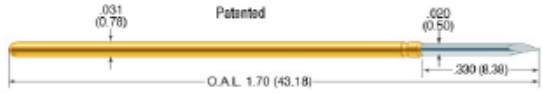
T30	T36	T79	UN	V	Z	Z1
Ø .034 (0.86)	Ø .034 (0.86)	Ø .079 (2.01)	Ø .025 (0.64)	Ø .055 (1.40)	Ø .060 (1.52)	Ø .051 (1.30)



A	B	H	I	I8
Ø .047 (1.19)	Ø .022 (0.56)	Ø .047 (1.19)	Ø .020 (0.51)	Ø .020 (0.51)

I15	I35	I40	J	L	L18	L24	T	T1	T24
Ø .021 (0.53)	Ø .022 (0.56)	Ø .021 (0.53)	Ø .022 (0.56)	Ø .033 (0.84)	Ø .018 (0.46)	Ø .022 (0.56)	Ø .047 (1.19)	Ø .022 (0.56)	Ø .022 (0.56)

T30	UN	V	Z	Z1
Ø .022 (0.56)	Ø .021 (0.53)	Ø .047 (1.19)	Ø .047 (1.19)	Ø .036 (0.97)



H	I	I8	I15	I40
Ø .035 (0.89)	Ø .017 (0.43)	Ø .017 (0.43)	Ø .017 (0.43)	Ø .017 (0.43)

J	T1	T20	T38	U
Ø .017 (0.43)	Ø .019 (0.48)	Ø .019 (0.48)	Ø .036 (0.97)	Ø .019 (0.48)

H	I	I15	L15	T15
Ø .028 (.711)	Ø .015 (0.38)	Ø .015 (0.38)	Ø .015 (0.38)	Ø .015 (0.38)

CONTACT PRODUCTS
A Cohu Company
EVERETT CHARLES TECHNOLOGIES

Contact Products Group
14570 Meyer Canyon Dr.
Suite 100
Fontana, CA 92336

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ASI INDUSTRIAL

ALUMINUM EXTRUSION PROFILE AND ACCESORIES

MEXFRAME

ASI INDUSTRIAL

MEXFRAME

PART NUMBER	DESCRIPTION
MM-90x90 MM-45x90 MM-45x45 MM-45x45HR MM-45x45LR MM-40x40 MM-30x30 MM-20x20 MM-60x60 MM-30x60 MM-45X45R	EXTRUDED ALUMINUM Length: 20ft (6.1mt)

Aluminum vs Steel

Think about the fact that, volume for volume aluminum is one third the weight of iron, steel, copper or brass. Yet it has yield strenght of 35, 000 psi, which means it is comparable to A36 steel carbon (frequently used in applications such as equipment and machinery supports as well as building frames). Furthermore, aluminum is resilient and can flex under loads or reshape itself after the shock of impact.

80/20 T-slot Aluminim

Modulasity is just a part of the many benefits aluminum offers to those looking for an alternative to steel and iron. Other benefits:

-Weighs less than steel
-Corrosion-resistant
-No welding required
-Costs less than steel
-Strength similar to steel
-Machining not required

Welded Steel Frame

For the skilled welder, steel can be a viable option but for many it's not an option for many reasons:

-More time and labor
-Welding required
-Machining required
-More expensive
-Needs painting
-One fixed design

Mexico

North Central Area
sales@viratechnologies.net
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Northeast Area
rdelapena@viratechnologies.net
Cel. +52 1 (844) 246 3484

Northwest Area
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Tel. +(52) 618 814 8440

Center Area
jsantiago@viratechnologies.net
Tel. +(55) 4321 1317

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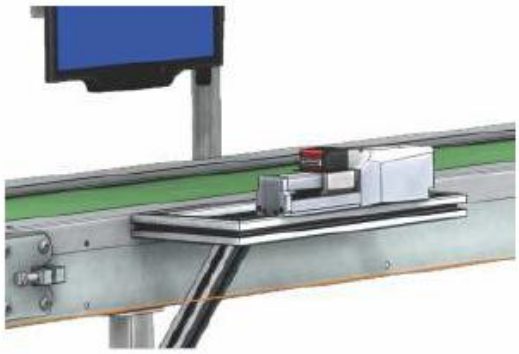
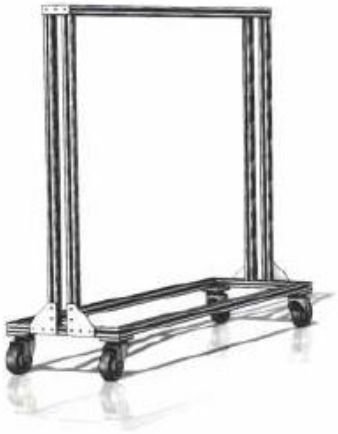
MEXFRAME

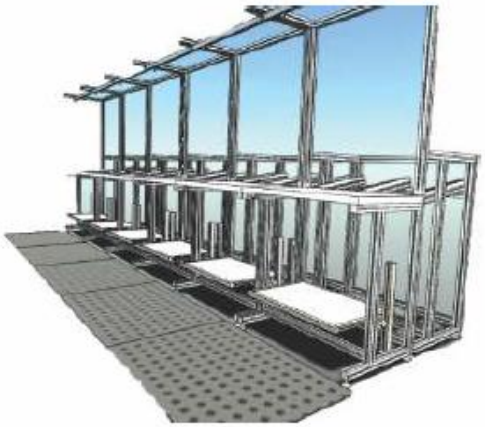
Applications

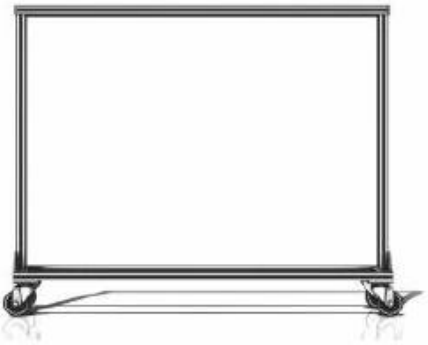
of aluminum profile and accessories



ALUMINUM EXTRUSION
PROFILE AND ACCESORIES







MEXFRAME

Sales & Technical Support at Mexico, Honduras, El Salvador and Nicaragua.

viratechnologies.net

656 633 4582 ext. 107

Julimes 6002 Col. Hipódromo C.P. 32685
Cd. Juárez, Chihuahua, México

ASI INDUSTRIAL

ASI INDUSTRIAL

Antaira Technologies is a leading developer and manufacturer that provides high-quality industrial networking and communication product solutions. Since 2005, Antaira has offered a full spectrum of product lines that feature reliable Ethernet infrastructures, extended temperature tolerance, and rugged enclosure designs. Our product lines range from industrial Ethernet switches, Ethernet media converters, and serial communication devices. Our vast professional experience allows us to deploy a wide array of products worldwide in mission-critical applications across various markets, such as, automation, transportation, security, oil & gas, power/utility, and medical.

PRODUCT OVERVIEW

ASI INDUSTRIAL

Industrial Ethernet Switches

Managed/
Unmanaged

M12

Compact

10 Gigabit

PoE*

*12-36VDC & 48-55VDC Options

Industrial Media Converters

PoE

Compact

Rackmount

Rackmount Switches

Rack Chassis

Wireless

Outdoor / IP67

AP / Bridges

Routers

Serial Connectivity

Serial Device
Servers

Serial to Wireless
Device Servers

USB to
Serial Hubs

antaira
making connectivity simple...

info@antaira.com
1-844-268-2472

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DEGSON-Global Industrial Connector Manufacturer, Providing Customized Solution To All Partners.

DEGSON

Add : No.1585,Xiaolin Road,Cixi,Ningbo China
P.C. : 315321
www.degson.com

Tel : +86-574-63510770
E-mail : sale@degson.com

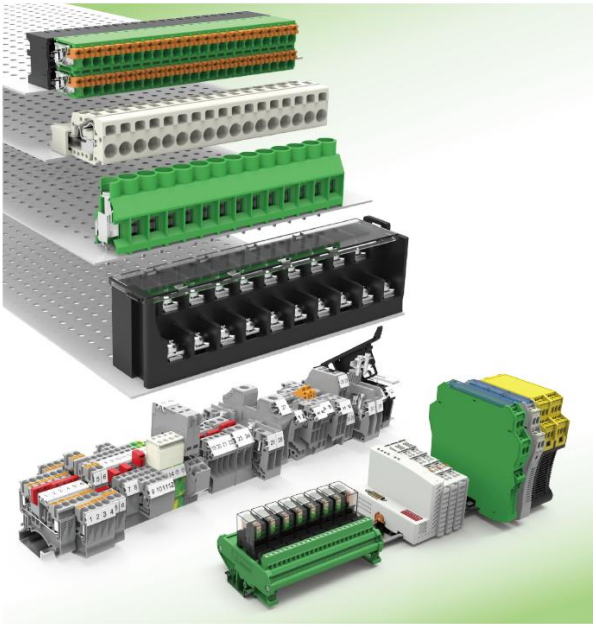
The catalog is only for reference, and the detail data must be based on our company's specification !

DEGSON website LINKEDIN

GC 23-E02

DEGSON

Terminal Block



ISO9001 ISO14001 ISO80079-34 ISO/TS22163 IATF16949 RoHS REACH

Global manufacture site

Brief Introduction

Founded in 1990, DEGSON is a global solution provider of electrical, electronic and industrial connectors. As a National High-tech enterprise, DEGSON owns the UL and VDE certified laboratory. The company achieved ISO9001, ISO14001, ISO80079-34, ISO/TS22163 and IATF16949 management system certifications.

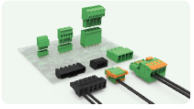
DEGSON is engaged in supplying highly reliable and durable products to serve global customers. The company has a market-leading capability of mould processing, automatic manufacturing and advanced testing. DEGSON has the complete engineering ability to support global customers with the professional customization solution and value-added service.

DEGSON products are widely recognized in China, the USA, Germany, the UK, Italy, Spain, Turkey, Japan, South Korea, Singapore, etc. totally hundred countries and regions. DEGSON supply high quality products and provide professional services globally in the industry sectors likely industrial automation, instrument, electric power, railway, marine and offshore, new energy, elevator, lighting, security, machinery, etc. The company won the recognition from partners among Fortune 500 and industry leading enterprises.

Based on the business philosophy of "pragmatic innovation, responsibility, integrity, harmonious development, regulation and win-win ", DEGSON continuously integrates professional technical resources, R&D innovation, product manufacturing and technology application capabilities. Relying on global sales network, DEGSON aims to supply series of multiple varieties of high-quality products and services. We provide global customers with professional and quick connected application solutions, help customers continue to create value. DEGSON is making contributions to creating a smart and interconnected world.

DEGSON

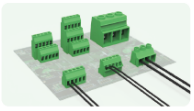
CONTENTS



PLUGGABLE TERMINAL BLOCKS

Plug-in terminal blocks, provide the wire size from 0.08mm² to 10mm². Available with different pitches from 2.5mm to 10.16mm. Choosing insert direction, contact direction, plug-in direction according to requests. The product is designed in accordance with IEC/EN61984、UL1059、CSA C22.2 No.158 standards.

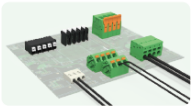
····· 01-12



PCB UNIVERSAL SCREW TERMINAL BLOCKS

PCB universal screw terminal blocks, this typical feature of the screw connection system is characterized by the easy connection and extremely high contact strengths. Provide the wire size from 0.08mm² to 35mm². Available with different pitches from 2.54mm to 15.0mm, and 3 wire insertion directions : 90°, 135°, 180°. The parts can be assembled by 2 ways and 3 ways, with the design level structures from 1 level to 4. The product is designed in accordance with IEC/EN60998、IEC/EN60947-7-4 UL1059 CSA C22.2 No.158 standards.

····· 12-17



PCB SPRING TERMINAL BLOCKS

PCB Spring terminal blocks, available with two connection methods, cage clamp contact and dish clamp contact. It can be used instead of Printed Circuit universal screw terminal blocks, more flexible. The product is designed in accordance with IEC/EN60998、IEC/EN60947-7-4、UL1059、CSA C22.2 No.158 standards.

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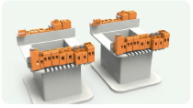


TRANSFORMER TERMINAL BLOCKS

Transformer terminal blocks, with structure design features of easy wire connection and reliable connection, also with snap foot allowing quick fixing to flat mounting rails 10x2mm or to snap-in devices of the winding frame. The product is designed in accordance with IEC/EN60998、UL1059、CSA C22.2 No.158 standards.

····· 20

THROUGH-WALL TERMINAL BLOCKS

Through-wall terminal blocks, the design of structure is characterized by the easy connection and extremely high contact strengths. These connectors are available in all types of wires with the size from 0.5mm² to 95mm², and design in accordance with IEC/EN60947、UL1059、CSA C22.2 No.158 etc.

FEED THROUGH TERMINAL BLOCKS

Feed through terminal blocks, connecting with two conductors easily and credibility, provide the wire size from 0.5mm² to 16mm². Available with fuse and without fuse. The product is designed in accordance with IEC/EN60998、UL1059、CSA C22.2 No.158 standards.

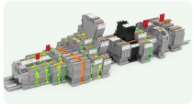
····· 21-22

BARRIER TERMINAL BLOCKS

Barrier terminal blocks, connecting easily, can be mounted on PCB board, panel and and Dn Rail. Wire range from 0.5mm2 to 300mm2. Available with different pitches from 6.35 to 60mm, with cover and without cover. The product is designed in accordance with UL1059、CSA C22.2 No.158 standards.

····· 22-27

CONTENTS



DIN RAIL TERMINAL BLOCKS

Din Rail terminal blocks, available with three connection methods, Push-in connection 、Spring Cage connection 、Screw connection. The combination terminals connect two conductors easily and credibility. They are designed for fitting both U type and G type Din Rails. The product is designed in accordance with IEC/EN60947, UL1059, CSA C22.2 No.158 standards.

····· 27-36

IP20 I/O SYSTEM

It is suitable for modular, field-bus in dependent distributed I/O systems. Users combine different digital input/output modules, analog input/output modules, power supply modules, etc. We can provide PROFINET, PROFIbus-DP, EtherCAT, Modbus/TCP, etc. The product is compact in shape, compact in structure and easy to assemble.

····· 37

RELAY

It is an automatic switching component with isolation function. It is one of the most important control components in remote control, telemetry, communication, automatic control, electromechanical integration and power electronic equipment. Between the input and output of the relay, the input part is isolated, the function is processed, and the output part is driven by the intermediate mechanism (drive part).

····· 37-38

INTERFACE MODULE

Interface Module, now we have connector Module Series, Relay Module series, Miniature Relay Module series and Soled State Relay Module series.

····· 38-39

HOW TO ORDER

DG500-5.08 | 0 | 2 | P | 1 | 4 | 0 | 0 | AH (Standard Products)

Series No. / No. of Pole / Single pitch / Double pitch / Color

EG:

HOW TO ORDER

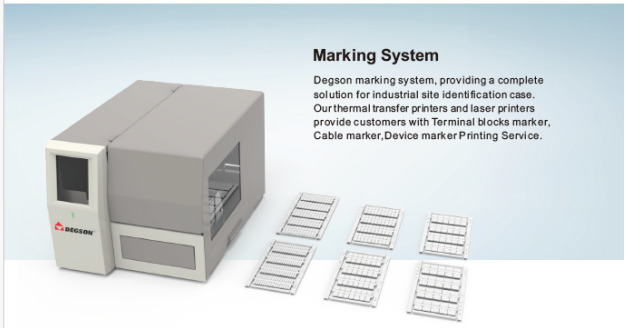
[ ] — X X X (Customer Request)

Series No.

The items marked " (☞) " are the parts under scheduling

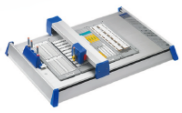
The catalog is only for reference, and the detail data must be based on our company' s specification!

DEGSON If you need more details, please contact us for latest catalogues, or visit our website !



Marking System

Degson marking system, providing a complete solution for industrial site identification case. Our thermal transfer printers and laser printers provide customers with Terminal blocks marker, Cable marker, Device marker Printing Service.



Model	PM-00A
Order No	99020000001

Writing Machine

- Flexible drawing function to realize automatic calibration of various logo printing requirements.
- To achieve better marking effect, large-scale marking area, batch printing.

Model	PPT
Order No	99020000073(To be released)

Thermal Transfer Printer

- Support plate printing, marking the terminals is applicable to ZS and ZSF standard marker.
- Thermal transfer printing technology, quickly realize batch printing.

Model	Order No
ZC6	9211890149
ZS3.5	1106000880
ZS5	1106000881
ZSF3.5	1106000598
ZSF5	1106000597
DTH15-25d5.5	1106000570
DTH15-25d12	1106000567
DTH5-25d5	1106000569
DTH5-25d12	1106000568
DMTH5-2	1106000588
DMTH5-3	1106000589
KLM3-20a8	1106000573
KLM3-44a8	1106000574
E-PC-1100A(H)	
E-WS N	
E-WS-5	1106000422
DBE-1	1106000210
DBE-2	1106000286
DLM2	1106000214
NS15	9211900003
NS35-7.5	9211900022
NS35-7.5-AL	9211900037
EEA1.5	9211890391
EEA2.5	1106000064
EEA4	1106000065
EEA6	1106000066
EEA10	9211890059
EEA16	9211890060
DLS-CU3/10	9211890917
SK3	9211890458
SK14	9211890928
AB-SK	9211890916

ASI INDUSTRIAL

Thermal Edge Inc.

TEMPERATURE CONTROL SOLUTIONS FOR ELECTRICAL ENCLOSURES

Product Line Overview

UL, cUL Listed and CE Certified
Standard & hazardous locations

Thermal Edge manufactures temperature control solutions designed to solve the enclosure cooling challenges that your industrial application poses for your electrical control panels. All products are designed and tested to meet your strict requirements for quality and durability. All products are equipped with time and energy saving features.

Manufactured in the United States

Thermal Edge enclosure air conditioners and heat exchangers are proudly made in Irving, Texas, U.S.A.

Programmable Digital Controller

Programmable set point and temperature controls, visible error and/or alarm messaging, and system protection.

Energy Efficient Operation

Thermal Edge enclosure air conditioners offer a condensation management system which lowers running amps.

5 YEARS

Industry Leading 5-Year Warranty

Thermal Edge products are warranted to be free of defects in workmanship, materials and components

ASI INDUSTRIAL

Thermal Edge Inc.™

AIR CONDITIONER OPTIONS

- Electrostatic Coil Coating to protect from corrosion caused by a salt or chemical environment
- Integrated Heat Packages to provide total temperature control for your enclosure, not just from the heat of summer but from the cold of winter
- Dry Contact Options to allow the use of alarms, lights and notifications
- External Heat Control to support use of an externally mounted heater in the enclosure
- 316 Stainless Steel for applications where 304 is not suitable
- Hazardous Location for Class 1, Division 2 Groups A, B, C & D applications
- Vibration Package allows for enclosure cooling on cranes, moving vehicles or other difficult locations
- 2" Deep Extended Filter Media for applications like flour, cement or coal when a standard filter will load too quickly
- Remote Controller Option to place our digital controller inside the electrical enclosure when the environment requires more security
- Redundant System Package for critical applications, when enclosure cooler failure is not an option. This system operates two air conditioners with specially programmed controllers that toggle the two units to operate them alternately to guarantee that your enclosure always stays at its required temperature and provide automatic backup
- The Universal Mounting Plate allows mounting the Thermal Edge Enclosure Air Conditioner onto an enclosure that formerly held a different air conditioner model

Enclosure Air Conditioners

1,000 - 20,000 BTUH

Air to Water Heat Exchangers

3,690 - 7,773 BTUH

Air to Air Heat Exchangers

12 - 40 Watts/°F

Plastic and Metal Filtered Fans

80 - 750 CFM

5-YEAR WARRANTY

Thermal Edge air conditioners can be built to operate on the voltage and frequency available wherever you need them.

CERTIFIED ISO 9001:2015 COMPANY

(972) 580-0200 • www.thermal-edge.com • thermalinfo@thermal-edge.com

Brochure #5
2022-11-04

ASI INDUSTRIAL

Thermal Edge Inc.

STANDARD ON EVERY THERMAL EDGE AIR CONDITIONER

- Industry leading 5-Year Workmanship Warranty
- Energy saving condensate evaporation system
- Fully programmable digital controller
- Thermal expansion valve
- Full A/C product line available in UL Types 12, 4 & 4X
- UL Listed under Standard 484, file number SA32252
- Rigid chassis and seam welded shroud
- Proudly manufactured in the U.S.A.

5-YEAR WARRANTY

NO WATER DRIPS FROM THERMAL EDGE ENCLOSURE AIR CONDITIONERS

AIR TO WATER HEAT EXCHANGERS

- Industry leading 5-Year Workmanship Warranty
- Closed-loop Design
- Filterless Maintenance Free
- Optional Digital Controller and Solenoid Water Valve
- UL Types 12, 4 & 4X
- 115 VAC, 230 VAC and 460 VAC
- UL Listed
- 3,690 BTUH
- 7,773 BTUH

AIR TO AIR HEAT EXCHANGERS

- Industry leading 5-Year Workmanship Warranty
- High efficiency heat pipe design
- 3 different chassis sizes
- Standard units include on/off switch
- UL Types 12, 4 & 4X
- 115VAC, 230VAC, 24VDC & 48VDC
- Needs no filter
- UL Listed for standard & hazardous location

PLASTIC AND METAL FILTERED FANS

80 CFM - 750 CFM in a variety of sizes

- Industry leading 5-Year Workmanship Warranty
- Available in injection molded plastic, 16 gauge powder coated steel and 304 stainless steel
- UL Types 1, 12 or 3R
- Washable filters
- Includes a filtered exhaust panel
- Comes assembled with template and gaskets

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About **Axiomtek**

Empowering IoT Innovation

Over the past 30 years, Axiomtek has been among the major design and manufacturing companies in the field of industrial computers and embedded systems. Since its establishment, Axiomtek has successfully gained worldwide recognition for our innovative designs and outstanding customer satisfaction. As a valuable & reliable industrial manufacturer, Axiomtek is devoted to producing state-of-the-art solutions that support users in achieving success. Axiomtek takes pride and ownership in what we do through our commitment to excellence.

Vision To be atop of the embedded computer industry, recognized by our partners as a trusted source of reliable products and dependable services

Mission To empower IoT innovation with reliable products and trusted services

Value Systems

Passion: We are passionate about our vision, our goals and our commitment to serve our employees and customers.
Integrity: We earn your trust through honest and ethical business practice.
Innovation: Our focus is on developing new products using the most advanced technologies and customer-based experiences.
Partnership: We commit to long-term mutual success with customers, employees and stakeholders.
Leadership: Our goal is always to be the leader in our targeted markets.
Diversity: We strive to diversify our products and services to serve specific industry needs.

New Products

AIE100-ONA

Fanless Edge AI System with NVIDIA® Jetson Orin™ Nano SoM, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB, Remote Management Service Empowered by Allxon

Datasheet (PDF)

AIE100-ONX

Fanless Edge AI System with NVIDIA® Jetson Orin™ NX, 1 HDMI, 1 GbE LAN, 1 GbE PoE, 2 USB, and Remote Management Service Empowered by Allxon

Datasheet (PDF)

AIE110-ONA

Edge AI Developer Kit with NVIDIA® Jetson Orin™ Nano SoM, 1 HDMI, 1 GbE LAN, 1 GbE PoE, and 2 USB

Datasheet (PDF)

iHPC100

Tower GPU Workstation with 12th Gen Intel® Core™ Processor

Datasheet (PDF)

iNA110

DIN-Rail Cybersecurity Gateway with Intel Atom® x5-E3930/E3940 Processor and 4 LAN with LAN Bypass

Datasheet (PDF)

IPC960A

Fanless Industrial System with LGA1700 Socket 13th/12th Gen Intel® Core™ i7/i5/i3 or Celeron® Processor, Intel® H610E/Q670E, and Front-access I/O

Datasheet (PDF)