



Since 1976  
**SINGATRON GROUP**  
Specialized Connector Manufacturer



# SGconn<sup>®</sup>

Waterproof Connectors

Waterproof Rating  
**IP65~68**



# The Singatron Group

Singatron Group was first established in Hsinchu, Taiwan in 1976. Since 2000, Singatron established China plants in both Suzhou and Chungshan to satisfy customers demand in Greater China area.

Singatron works with its customers and focuses on innovation, and development to provide high quality connectors, professional support, and competitive pricing to the global electronics industries.

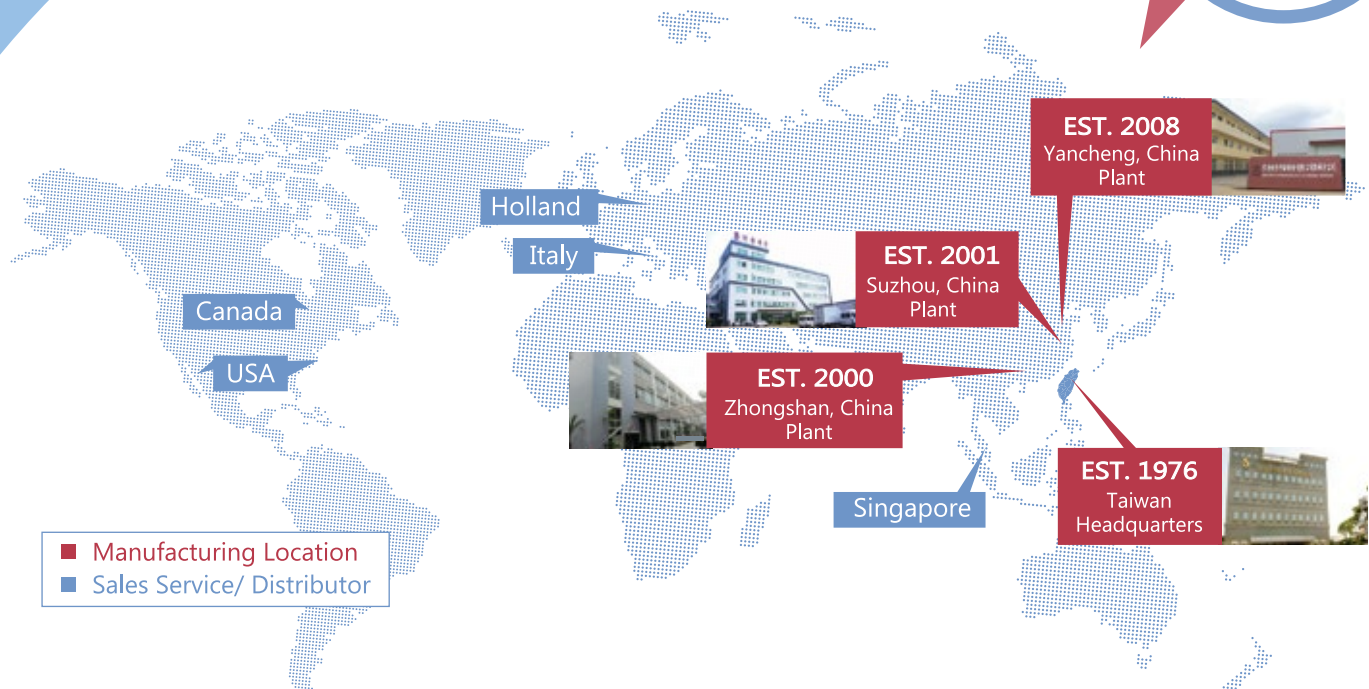
Singatron provides worldwide service network in Taiwan, China, South Korea, USA, Canada and Europe. Total manpower exceeds 2000 staffs.

- |              |                  |                             |
|--------------|------------------|-----------------------------|
| ☑ ISO 9001   | ☑ ISO 14001      | ☑ SONY & ASUS Green Partner |
| ☑ IATF 16949 | ☑ OHSAS 18001    | ☑ RoHS/ EICC5.0 (2014)      |
| ☑ 6 Sigma    | ☑ IECQ QC 080000 | ☑ UL/ VDE/ NMEA 2000        |

Over  
20,000  
Products

2,000  
employees

40+  
years of  
experiences



# SGconn and Applications

Singatron Group is proud to announce SGconn as a new brand identity for its growing line of rugged and waterproof connectors. The logo brings all these characteristics together in a name that is easier to identify as well as reinforces SGconn's commitment towards growing this product line in ways which respond to the harsh demands from our customers.

SGconn supports products and initiatives that promote environmental consciousness, 5S & Six Sigma Lean Behaviors, with team work, honesty, and integrity. Segments served include marine electronics, outdoor displays/lighting, communications for outdoor AP/Repeater/Bridges, industrial automations and light electronic vehicles.

SGconn is built to the highest quality and specifications and fulfills European Union regulations for RoHS, UL, VDE, NMEA 2000 and major worldwide safety requirements.

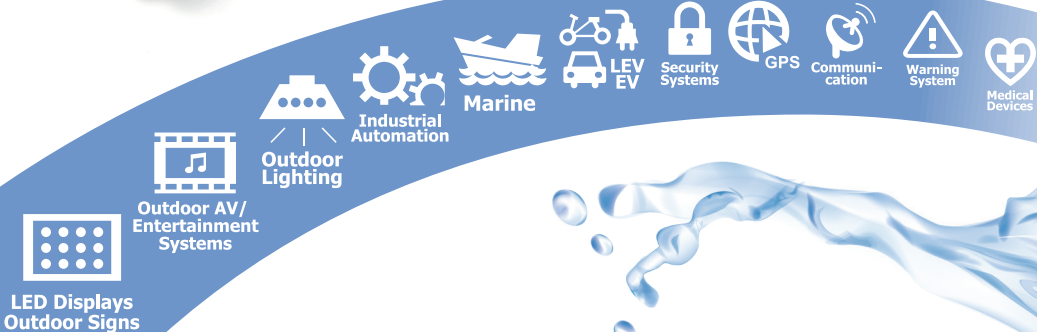


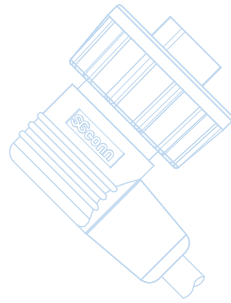
## Outdoor Display

- Outdoor Billboard
- Outdoor Sign
- Outdoor TV/ AV



**SGconn**<sup>®</sup>  
Waterproof Connectors





### Outdoor Lighting

- Building Lighting
- Tunnel Lighting
- Transport Lighting
- General Lighting



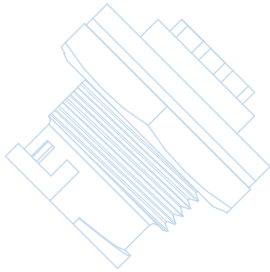
### Light Electric Vehicle

- Battery/Charger
- Motor
- Controller
- Indicator



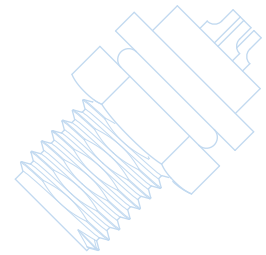
### Security Devices

- IP CCTV
- Security Systems
- Warning Systems



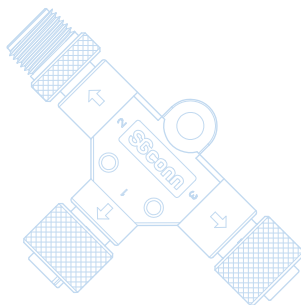
### Marine Electronics

- NMEA2000 Certified
- Rader/GPS/Autopilot
- Communication
- AV Entertainments



### Industrial Automation

- Goneyors/ Forklifts
- Heavy Machineries
- Communication Panel
- Industrial PC/Sensor



### Communication

- AP/Bridges/Antennas
- Telecom Equipments
- Base Station



### Medical Devices

- Medical Cart
- Warning Systems
- Power Saving
- Patient Bed



# Product Line



## Product Applications

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## Product Test Laboratory Capability

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### Circular

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Middle Size	A18
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### Circular Quick-Lock

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Hook Lock (Standard)	B04
Push Lock (Standard)	B05
Push Lock (Middle)	B10



### M Series

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### NMEA 2000

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**D01**

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## RJ45

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## USB Charger **G01**

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## USB

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## Cable Gland/ Cable Joint **J01**

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## LEV (e-Bike) **L01**

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Connectors for ---	
Indicator	L04
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Battery/ Charger	L06
Motor	L08

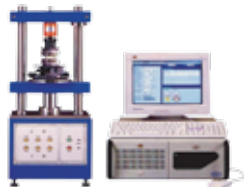
# Product Test Laboratory Capability

Mechanical Test • Environmental Test • Electrical Test • Waterproof Test



## Connector Endurance Testing Machine

- Test Item:
- Durability
- Test Method:
- EIA-364-09
  - MIL-STD-1344A [Method 2016]



## Vertical Tensile Strength Testing Equipment

- Test Item:
- Insertion/ Withdrawal Forces
  - Contact Retention
  - Normal Force
  - Mating/ Unmating Force
- Test Method:
- EIA-364-04, 13, 29, 37
  - MIL-STD-1344A [Method 2007.1], [Method 2013.1], [Method 2014]



## 2.5D Optical Microscope

- Test Item:
- Dimension Measurement
  - Photo Capture
  - Link with CAD System
- Test Method:
- EIA-364-29, 37
  - MIL-STD-1344A [Method 2007.1], [Method 2014]



## Horizontal Optical Microscope

- Test Item:
- Side View Projection
  - SMT Co-planarity
- Test Method:
- EIA-364-29, 37
  - MIL-STD-1344A [Method 2007.1], [Method 2014]



## X-ray Inspection System

- Test Item:
- Non-destructive Inspection
  - Inner Structure Check
- Test Method:
- EIA-364-29, 37
  - MIL-STD-1344A [Method 2007.1], [Method 2014]



## Salt Spray Test Instrument

- Test Item:
- Salt Spray (Corrosion)
- Test Method:
- EIA-364-26
  - MIL-STD-202F [Method 101D]
  - MIL-STD-1344A [Method 1001.1]



## Temperature & Humidity Test Chamber

- Test Item:
- Steady State Humidity
  - Humidity-Temperature Cycling (Moisture Resistance)
- Test Method:
- EIA-364-31 [ Method II, III ]
  - MIL-STD-202F [Method 103B], [Method 106F]
  - MIL-STD-1344A [Method 1002.2]



## Thermal Shock Chamber

- Test Item:
- Temperature Cycling (Thermal Shock)
- Test Method:
- EIA-364-32
  - MIL-STD-1344A [Method 1003.1]
  - MIL-STD-202F [107G]



## Hot Air Rapid Drying Oven

- Test Item:
- Temperature Life (Thermal Aging Life)
- Test Method:
- EIA-364-17 [Method A]
  - MIL-STD-202F [Method 108A]
  - MIL-STD-1344A [Method 1005.1]



## Steam Aging Equipment

- Test Item:
- Solderability
- Test Method:
- EIA-364-52
  - MIL-STD-202F [Method 208G]



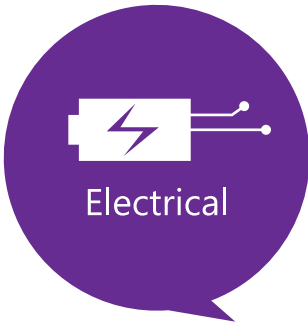
## Pure Convection Reflow Oven

- Test Item:
- Resistance to Soldering Heat (Infrared)
- Test Method:
- EIA-364-56 [Procedure 5]



## Polishing Machine

- Test Item:
- Polish Cross-section Samples
- Test Method:
- EIA-364-52
  - MIL-STD-202F [Method 208G]



Multi-Meter/ Data Acquisition



Milliohm Meter

- Test Item:
- Low Lever Contact Resistance
- Test Method:
- EIA-364-23
  - MIL-STD-1344A [Method 3002.1]



DC Power Supply



Programming Electrical Loading



Hybrid Recorder

- Test Item:
- Current Rating and Temperature Rise
- Test Method:
- EIA-364-70 [Method B]



High Resistance Meter/  
Withstanding Voltage/  
Insulation Analyzer

- Test Item:
- Insulation Resistance Dielectric Withstanding Voltage Insulation Resistance

- Test Method:
- EIA-364-20, 21
  - MIL-STD-202F [Method 301, 302]
  - MIL-STD-1344A [Method 3001.1], [Method 3003.1]



Wetting Balance Tester

- Test Item:
- Solderability-Wating Balance Test

- Test Method:
- ANSI/ J-STD-002



Solder Dip Test

- Test Item:
- Resistance to Soldering Heat (Dip and Wave Solder Termination)
  - Solderability

- Test Method:
- EIA-364-52
  - EIA-364-56 [Procedure 3]
  - MIL-STD-202F [Method 210C]

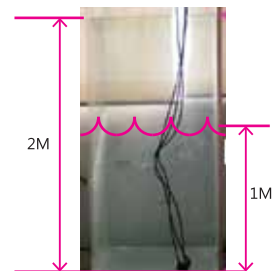
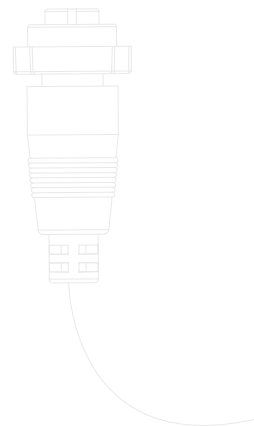


Coating Measurement Instrument

- Test Item:
- Plating Thickness
- Test Method:
- EIA-364-48 [Method C]



IP65/ IP66 Test



IP67/ IP68 Test



Automatic Vacuum Tester  
(Positive/ Negative Pressure)





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Waterproof Connectors

Singatron reserves the right to make any changes and updates for design and specification at any time without notice. More information please visit [www.singatron.com.tw](http://www.singatron.com.tw) or contact us.

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