



SMB UNITED LIMITED

STAYING CONNECTED,  
YOUR RELIABLE PARTNER

## SMB UNITED LIMITED

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Headquartered in Singapore with a strong regional presence, SMB United Limited is a leading products and solutions provider catering to switchgear, electronic energy metering, power and monitoring, trading and distribution, and building services markets.



# SMB UNITED AT A GLANCE

- Founded in 1973, incorporated as Group holding company in 1995
- Listed on the Mainboard of the Singapore Exchange Securities Trading Limited ("SGX-ST") in 1996; subsidiary EDMI Limited separately listed on SESDAQ in 2003 and transferred to the Mainboard in 2007
- Group revenue exceeded S\$200 million for first time in FY2008 and continued the trend in FY2009 and FY2010
- A client base that spans all industry sectors including financial services, telecommunications, healthcare, manufacturing, government, education, commercial & residential buildings, industrial process plants, infrastructural developments, mission critical / data centres, food processing & pharmaceutical, offshore & marine and oil & gas market applications
- Approximately 1500 employees employed in Singapore and internationally
- Operations in 6 countries covering Singapore, Malaysia, Australia, the Philippines, Vietnam and China, with market penetration to over 35 countries worldwide
- Strategic and distributorship agreements with leading technology vendors, including hager, Mitsubishi, Schneider, Socomec, Broyce Control, Katkos, etc

## CORE VALUES

### Professionalism

We are a committed partner that provide clients with specialist solutions to all their projects.

### Honor & Integrity

We conduct our business with honesty, trustworthiness, dedication and responsibility.

### Innovation

We offer creative and innovative solutions to meet all our clients' needs.

## SMB UNITED AT A GLANCE

**SMB's business strategy is based on its unique model of bringing together a diversity of products and services, multiple distribution channels, and an extensive regional footprint that spans across the four business divisions. The Group is able to effectively harness its resources to better serve its customers by offering complementary solutions from its business divisions. This strategy allows SMB to be the preferred single source for its customers, providing a complete spectrum of products and solutions to serve projects of different sizes.**



The Group's origins date back to 1973 when the Group's founders started Mac Electric (S) Pte Ltd ("Mac"), which specialised in the manufacture of low voltage ("LV") switchgear. Subsequently, SMB United Industry Pte Ltd was incorporated on 7 September 1995 by merging the former with three other companies – Soundtex Switchgear & Engineering Pte Ltd ("Soundtex"), Bridex Singapore Pte Ltd ("Bridex") and Heer Singapore Pte Ltd. The name was eventually changed to SMB United Limited on 19 July 1996 after conversion into a public limited company. The Group was successfully listed on the Mainboard of the SGX-ST on 23 September 1996.

The swirl in the logo is a graphical representation of the letters S, M and B – which represents Soundtex, Mac and Bridex. They symbolise an all encompassing and comprehensive business which is growing towards globalisation.

# SMB BUSINESS DIVISIONS

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Armed with four core business divisions - Switchgear, Power & Technology, Trading & Distribution and Building Services, SMB United Limited is a regional niche player and leader in providing quality products and solutions for the electrical and power-related industries.

## SWITCHGEAR DIVISION

This division develops, manufactures and distributes switchgear and controlgear assemblies across a wide spectrum of market applications such as Commercial, Residential, Industrial Process Plants, Infrastructural Developments, Food Processing, Pharmaceutical, Marine, Oil & Gas as well as for the specialised industries such as Data Centres and other Mission Critical projects such as hospitals. The division has developed M-Cube, a high-end revolutionary switchgear system which incorporates the latest advanced switchgear design and features.

## POWER & TECHNOLOGY DIVISION

The Group's Power & Technology division develops, manufactures and distributes innovative and technologically advanced revenue meters and metering systems to the global utility industry and is one of the leading smart metering solution providers in the world. Spearheaded by EDM I Limited ("EDMI"), the Group's wholly owned subsidiary, the division is well positioned to leverage on growing demand for electronic metering products. Under the metering portfolio includes power quality mitigation products, advanced infrastructure and energy management systems to industrial and commercial energy users.

## TRADING & DISTRIBUTION DIVISION

Led by Bridex Singapore Pte Ltd, this division is the exclusive distributor of electrical products and equipment for numerous international companies. The division also develops and manufactures the Rudolf™ brand of products. The business strategy of this division rides partly on the Switchgear business, capturing the critical mass of component requirements from the construction market.

## BUILDING SERVICES DIVISION

Heading this division is Quantum Automation Pte Ltd ("QA"), which is a key provider of high-tech building automation and control systems and a major purveyor of intelligent building and energy management systems in Singapore and the neighbouring region. QA is a niche and recognised solutions provider for commercial building controls and intelligent home automation systems. Specialisations include: integrated security and anti-terrorism systems, soft addressable fire alarm systems, public address and public display systems, automated blind systems, laboratory control systems, remote site monitoring systems and cashless car-park systems.

## SMB'S COMMITMENTS

At SMB, we are committed to pursuing excellence in the areas of partnerships, technical standards, customer service, human resource development and community development.



### PARTNERSHIPS

We are committed to establishing and continuing long-standing relationships with partners to sustain long-term growth. We recognise that these relationships, based on mutual cooperation, respect and trust, form the cornerstones of our successful representation of international brands.



### EXCELLENCE

We aim to achieve excellence for the products and solutions that we manufacture and represent. They are all designed to achieve high performance, reliability and outstanding value. We are also committed to investment in R&D to derive quality at economically viable costs. Our employees, taking great pride in their work, are motivated to achieve professionalism, teamwork and the highest performance standards. Our commitment to quality has earned our companies certifications of quality management.



### CUSTOMERS' SATISFACTION

Customers' satisfaction is of utmost importance to us. We achieve it by going the extra mile for our customers. The in-depth technical and industry knowledge that we provide is guided by a listening ear to our customers' needs. We seek to become trusted technology advisors to our clients, recommending the diverse solutions available at our disposal. Our approach is always client-centric and our focus is on performance excellence, taking our commitment to clients seriously. Customer service does not end at project commissioning, but goes beyond it to include continuous technical support. Our total solutions approach has gained us a loyal base of satisfied customers and a strong industry reputation to drive steady growth. Going above and beyond to exceed clients' expectations is deeply ingrained into our culture. Our clients trust our judgement, because our focus is on understanding their business and meeting their business challenges.



## HUMAN RESOURCE DEVELOPMENT

Our people are our best assets – they share the values we cherish, which are professionalism, honor & integrity and innovation. That is why we are focused on developing our human capital by taking care of our staff's welfare and helping them achieve their full potential. Only in this way can we maintain our winning formula and continue to achieve excellence in execution, the key criteria in business success. Our employees are not only among the most highly skilled in the region, they are also passionate about their work. Our people call upon their latest technical knowledge, their extensive practical experience and their understanding of technology trends to create optimal solutions.



## COMMUNITY DEVELOPMENT

We believe in giving back to the community we operate in. As a good corporate citizen, we carry out various charity programmes, often in partnership with our business associates. We have, on an annual basis, hosted visits by students of local and overseas educational institutes to enhance their knowledge and understanding of the subject under study.



## QUALITY SUPPLIES

We are dedicated to source our supplies from reputable firms in both local and overseas markets to ensure greater reliability of the parts used in our products. We also identify dependable suppliers for faster response and quicker turnaround time so as to allow us to meet projects with tight deadlines.

## SWITCHGEAR DIVISION

The Switchgear Division is known as one of the leading specialist manufacturers of electrical switchgear, controlgear assemblies and other electrical distribution / protection related products in Singapore.



The SMB Electric Switchgear group of companies, which represents the Switchgear Division, supplies low voltage (LV) electrical switchgear for various market applications:

- Commercial & Residential Buildings
- Industrial Process Plants
- Infrastructural Developments
- Food Processing & Pharmaceutical
- Mission Critical Projects – Data Centers / Solar & Wafer Fabrication
- Offshore & Marine / Oil & Gas Industries

The switchgear plays an integral role in the distribution of electricity and isolation / protection of electrical circuits. Large currents and power levels are safely controlled by automatic equipment incorporating digital controls, protection, metering and communications. Switchgear systems serve as crucial investment in any industry and there will always be demand where there is economic development.

SMB Electric Pte Ltd was formed in 2000 as a merger with another three switchgear companies, namely Soundtex Switchgear & Engineering Pte Ltd, Avil Systems & Services Pte Ltd and Brighten Switch Board Builders Pte Ltd. Besides the manufacture and sale of switchgear, it is also a metal-working entity which provides the Switchgear Division with the in-house capability to design, engineer and fabricate all types of enclosures and frames for switchgear main-boards & sub-boards, 19" server racks, distribution boards, control panels, motor control centers, power control centers, fire alarm panels and metal cabinets for special purpose housings, all of which are designed to meet international standards.

SMB Electric Systems Pte Ltd, SMB Electric Industries Pte Ltd and SMB Electric Harwal Pte Ltd are self-sustaining business entities which build and assemble switchgear to meet customer requirements in Singapore and overseas. Together with SMB Electric Pte Ltd, the four companies are located in Senoko, Singapore.



15, 17 Senoko Avenue, Singapore



9 Senoko Drive, Singapore



15 Senoko Way, Singapore

There are five overseas subsidiaries spread over three countries which manufacture and assemble switchgear to service the demands of their local markets.



Australia



Malaysia



Vietnam

Other markets that the Switchgear Division distributes to include:

- Africa and Nigeria
- Asia – Hong Kong SAR, Korea and Japan
- Europe – Norway
- India
- Middle East – UAE, Saudi Arabia
- Southeast Asia – Brunei, Indonesia, the Philippines

The Switchgear Division places great emphasis and focus onto R&D. There is a dedicated team of experienced specialists that participate in continuous improvement projects to seek out enhancements to both processes and products. Technological innovation is the hallmark of the Switchgear Division, as with active customer engagement. Such practices ensure that up-to-date solutions are provided to addressing evolving industry needs. In the process, timely support is offered to customers with the result of greater customer satisfaction levels attained. The Switchgear Division further set up an in-house test bay station of 1000kW capacity to perform full load tests on completed main switch-boards and sub-boards in order to ensure that the equipment shipped out were able to meet the most stringent electrical requirements.



# SWITCHGEAR DIVISION

## M-Cube

In its efforts to constantly upgrade its product range from the traditional Mac modular switchgear, the Switchgear Division has introduced M-Cube, its latest modular switchgear system. Combining the latest improvements in frame and structural design, coupled with the option for withdrawable modules, the revolutionary M-Cube switchgear is not only space saving but also offers superior switchgear features compared to others in the industry. The Switchgear Division is fully committed to product quality of the highest level and completed type-tests on all the M-Cube LV models in the last quarter of 2009. This means that the M-Cube range is compliant to the latest IEC 61439-1 requirements. In 2011, the M-Cube was certified as a Singapore Green Building Product (SGBP) with energy management and measurement functions to the building industry's energy efficiency goal.



M-Cube Fixed Type Switchgear



M-Cube Withdrawable Type Switchgear

Going forward, the switchgear business continues to spearhead the creation, development and manufacture of the industry's most advanced switchgear technologies. Its role is to translate these technologies into value for customers through professional solutions and services, providing comprehensive sales support and professional expertise for its diverse product range around the world. The Switchgear Division strives to continue opening up new markets, working to anticipate and respond to opportunities as well as providing better and faster power technology solutions.



Empty Enclosure



Fire Alarm Panels & Equipments



Distribution Board



Sub-Board



Control Panel



Meter Board



Over-Ground Distribution Cabinet



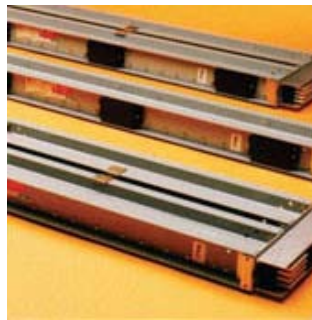
19" Server Rack



## Other Services

### BUSWAY SYSTEM

As the sole distributor of the Eaton brand of busway system products in Singapore, SMB Electric offers busway services and solutions which include benefits such as flexibility and ease of installation in terms of jointing and fitting. The Cutler-Hammer® Pow-R-Way III busway system can be utilised over a broad spectrum of industrial, commercial and institutional applications. Product features include an epoxy insulation that ensures optimum conductor & system protection and silver-plated joint / contact surfaces that provide high quality connections.



Pow-R-Way III Busway



Pow-R-Flex Busway



100 AMP Busway

### POWER QUALITY MANAGEMENT

Customers require a high quality power supply on which to run sensitive electronic equipment and high electronic loads for successful business operations in today's knowledge-based industries. The power system management solutions developed by SMB Technologies Pte Ltd help to ensure the quality of power supply with the use of EDM smart meters or Elspec Power Quality Analyzers.



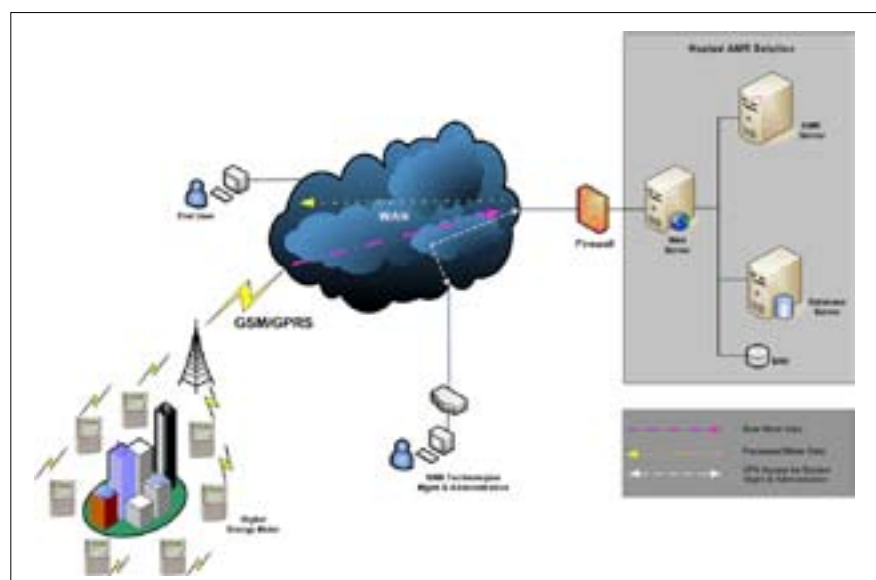
Elspec G4000



Elspec G4500

### METERING

SMB Technologies Pte Ltd offers sub-meters which allow users to enjoy a world of energy meter reading, billing and collection as the trend moves towards greater worldwide electricity deregulation. The arduous process of metering and billing is automated, thereby easing and enabling the supervision of all energy purchases and utilization of facilities in a precise and timely way. This system also incorporates accounting practices for private energy billing and compilation, which allow users greater flexibility and time to focus on management issues rather than operations.



## POWER & TECHNOLOGY DIVISION

With origins tracing back to 1978 in Australia as a contract manufacturer of small-scale electronic products to its incorporation in Singapore on 15 March 1997, listing in Singapore's SESDAQ in 2003 and subsequent transfer to the Mainboard of SGX-ST in 2007, the Group's Power & Technology division has come a long way. The division designs, manufactures and markets the most technologically sophisticated electronic revenue meters in the world.



The division, led by EDM I Limited, specialises in the manufacture of top end tariff / non-tariff intelligent, microprocessor-based electronic energy meters and power quality performance systems. EDM I and its subsidiaries are dominant in the global arena for innovative and technologically advanced smart metering products and systems for the global utility industry. EDM I's metering portfolio includes a comprehensive range of premium quality metering products, advanced infrastructure and energy management systems.

The meters, with their advanced features are well-received by utility companies that are involved in the generation, distribution and supply of electricity in Europe, the ASEAN region, Middle East, South Africa and Oceania. The division has carved a niche market for providing turnkey solutions to meet the demands and needs for power & energy monitoring and power quality management services by providing applications-driven and cost-effective solutions in specialised areas.

Customers are broad-based and cover the following market sectors:

- Electronics
- Semiconductors
- Chemical
- Oil & Gas
- Food & Beverages
- Utilities
- Waste Treatment

The signature meter models, the Mk6E, Mk7 and Mk10 meters have gained market acceptance from electric utilities industries worldwide. All meters comply fully with IEC standards as well as specific national standards in many countries around the world. The meters also possess software capabilities for easy reconfiguration and come with a range of communication abilities for remote readings. In 2006, EDM I was authorised by the U.K. Office of Gas and Electricity Markets (OFGEM) to self-certify electricity meters on their behalf. EDM I was also approved by SAC-SINGLAS as an accredited factory in compliance with IEC/ISO 17025:2005 for testing of electricity meters. In 2007, EDM I was further awarded by SGS (UK) for compliance with Directive 2004/22/EC.

Electronic tariff meters have replaced the traditional electromechanical meters in many parts of the world, including many Asian countries due to deregulation and higher consumer expectation. This facilitates the introduction of automatic meter reading ("AMR") and advanced metering infrastructure ("AMI") technologies, sub-metering and energy management systems where EDM I meters are well suited for these applications. The meters are primarily used to measure transfers of electricity among power stations, transmission companies, distributors and end-users for both commercial and industrial applications.

EDMI has leveraged onto the worldwide trend for electricity deregulation and offers private submetering systems for users to enjoy greater convenience in energy meter reading, billing and collection. This system automates the laborious process of metering and billing, enabling an accurate and timely management of all energy purchases and consumption. It also incorporates accounting practices for private energy billing and collection, allowing users to better focus on energy management rather than operational issues.

In 2006, EDM I expanded beyond its metering portfolio to provide customers with network metering solutions and AMR software.

This strategy places EDM I as the front runners in the electronic energy meters industry. The division will continue to add interface and communication features into the products to improve suitability for use in most systems. The division also continues to grow the core competencies needed to be a technology partner or solutions provider to customers. Through in-house development and technology partnerships, the division has developed data retrieval and processing system software such as Eziview, EziSetup and Multidrive which will fully exploit the advanced features of the devices. This will facilitate the ability to communicate via media such as power line carrier (PLC) devices, GSM, TCP / IP, UDP / IP, RS485 / 232, PSTN / ISDN, GPRS / Radio, etc.

### **RANGE OF METER PRODUCTS**

- Mk6E, Mk6N Genius Energy Meters
- Mk7, Mk7A, Mk7C Atlas Single Phase Meters
- Mk10, Mk10A, Mk10D, Mk10E Atlas Three Phase Meters
- Mk29 Abacus Single Phase Meters

### **OTHER PRODUCTS**

#### **Multi-Drive**

A comprehensive AMR data management (Accumulation and Retrieval) software that enables the remote retrieval of large volume meter data from meters and other measuring devices. Its flexible, scalable system architecture using distributed communication servers for high performance and robustness simplifies use in large scale AMI / AMR, utility or sub-metering applications. Meter readings can be done via PLC, GSM / GPRS, LAN, PSTN and other communication media. The use of Multidrive instead of general AMR software allows for optimisation of meter reading processes and utilising the full spectrum of features in EDM I meters.

#### **Eziview**

Windows based software system designed to work with PowerSignature™ software to provide power monitoring and reporting functionality for data retrieval and configuration.

#### **EziSetup**

Windows based application designed to configure EDM I meters in a production environment.

#### **Atlas WH1 Wireless Data-hub**

A radio based data logger that utilises the Coronis Wireless Retrieval System. These data-hubs collect data pulses from other utility services where laying of cables back to the energy meter is not practical. It is designed to work with the Mk6E, 7 and 10 meter series.

#### **MkL16 Data Logger**

A wired data logger with 16 input channels that collect pulses from other utility services via cable connection.

#### **IK30 PLC Concentrator**

Serves as a control center and data bank to manage and communicate with PLC meters through different communication systems.

#### **EWM100**

Advance GSM/GPRS Modem for Smart Metering Applications

#### **Gas Meters**

- U8 Domestic and Residential Gas Meters
- U10 Residential and Commercial Gas Meters
- TR143 Residential Low Pressure Regulators
- TR200 Residential High Pressure Regulators

## POWER & TECHNOLOGY DIVISION

This business division has strong Research and Development (“R&D”) teams in Australia, Singapore and China to undertake R&D activities to develop technologically advanced state-of-the-art meters and a suite of cutting-edge applications, as well as introduce enhancements to the existing range of meters. The meters are versatile and can be customised to meet the specifications of customers. Customers can therefore embrace the technological breakthroughs for the benefit of their businesses. The PowerSignature™ energy management system developed by the Switchgear division is the epitome of our synergy as it is also used in energy metering for sub-meters and billing management systems for the Power & Technology Division.



Mk6E meter



Mk7A meter



Mk10A meter

### FEATURES OF EDM I METERS

- IEC Compliance – Type tested for electromagnetic compatibility, metering accuracy and safety in electrical and electronic products.
- Use of proprietary software – EziView, EziSetup, Multidrive
- Build-in communication features
- High measurement accuracy
- Power quality measurement
- Intelligent and reliable with anti-electricity theft features

The division believes in delivering quality products at competitive prices to customers.

### MARKET SEGMENTS

- Power stations and transmission companies
- Transmission companies and distributors
- Distributors and end-users such as consumers and industrial uses



EDMI has marketing offices and servicing hubs in several regions worldwide. These centres serve as regional customer service and technical support centres which are responsible for supporting specific local market requirements. Besides handling customer enquiries and providing technical support, they are used to calibrate, customise and repair EDM I meters. EDM I regularly conducts sales presentations and seminars to prospective clients and participate in energy industry trade shows to showcase meters to prospective clients.



#### **MARKET REACH**

EDMI's global sales and service network covers over 35 countries, with its head-office in Singapore and offices in Australia, China and Malaysia. EDM I also has agents across the various regions listed below. This strategy allows EDM I to forge closer and stronger relationships with customers and in the process, improve its responsiveness to help them achieve their business objectives.

#### **Regions**

- Australasia – Australia, New Zealand, Fiji
- ASEAN – Brunei Darussalam, Cambodia, Indonesia, Laos, Malaysia, Myanmar, the Philippines, Singapore, Thailand, Vietnam
- Asia – Bangladesh, Sri Lanka, India, Korea, China
- The Middle East – Iran, Egypt
- Europe – UK, Sweden, France, Belgium, Switzerland, Italy
- Africa – South Africa, Tanzania, Kenya, Mauritius, Nigeria, Ghana

## TRADING & DISTRIBUTION DIVISION

**This division is led by Bridex Singapore Pte Ltd, which is engaged in the wholesale, trading and distribution of well-known brands of low voltage (LV) electrical and electronic components and equipment. Bridex is the exclusive distributor of the in-house technologically advanced Bridex and Rudolf™ brand of power distribution, protection and control products in Asia.**

This division represents a number of global MNCs including hager, Mitsubishi, Schneider, Socomec, Broyce Control, Katkos and others. These companies manufacture complementary equipment to Rudolf™ products. The division has matured from its early days in 1978 as a manufacturer of current transformers in Singapore and has evolved to become a premier Multi-Specialist Distributor in the Asia Pacific region to cater to specialised requirements.

The in-house development and manufacturing of the Rudolf™ range has provided Bridex the ability to focus on innovation, which allow customers' needs to be met swiftly and effectively. Bridex is able to offer a comprehensive range of power quality solutions, motor controls, meters, switchgear and instrumentation products to customers in the industrial and building sectors.

The Trading and Distribution division regularly reviews its portfolio, product & service offerings and business processes in order to optimise its strengths and competitiveness. The nature of Bridex's business is to capture the critical mass of component requirements from all levels of the construction market.

### **The division's product offerings are structured around technologically advanced electronic products such as:**

- Rudolf™ products – controllers, instrumentation and power quality systems
- Distribution & Protection products
- Lighting products
- Installation equipment
- Industrial Control products
- White & Brown products – Electrical wiring accessories and fittings
- Medium Voltage equipment
- EVA Digital power meter – Highly accurate micro-processor based digital meters that display integrated electrical parameters such as energy, power, harmonics, current and others.
- Protection instruments for high-end industries – Surge / IDMT protection relays
- Integrated automatic transfer switches
- Meters – Digital amp-meters, volt-meters, multi-function meters, power meters
- Encapsulated current transformers

**Bridex distributes internationally to the following locations:**

- Malaysia
- Brunei
- Myanmar
- New Zealand
- Australia
- Indonesia
- The Philippines
- Vietnam
- Thailand
- India & Sri Lanka
- The Middle East
- South Africa
- Hong Kong SAR
- Taiwan
- Tanzania
- Iran



Panel Instruments



Rudolf™ Products



Air Circuit Breaker



Distribution & Protection Products

**Headquartered in Singapore, Bridex is presently the leading trader and distributor in the Asia Pacific region with three overseas subsidiaries established in Australia, the Philippines and Vietnam. The robustness of the regional presence provides a competitive advantage in working with customers. The close proximity allows for quicker reaction and response to customer needs and efficiency in sales support, thus providing better means of anticipating customers' requirements.**

## BUILDING SERVICES DIVISION

**Leading the Building Services Division is Quantum Automation Pte Ltd, which is mainly involved in the supply, design, installation, commissioning and maintenance of high technology computerised automation and intelligent building control systems for industrial, commercial and residential applications.**

As a leader in providing leading-edge integrated building management solutions, Quantum Automation develops solutions which are driven by controls and internet communication technologies. The business activity of this division complements SMB's business in providing electrical building related services and boasts products such as fire protection and alarm systems, integrated security control systems, terrorist threat detection systems, bio-venture laboratory control systems, energy management systems, remote site monitoring systems, bio-hazard and car park ticket management systems. Latest product offerings include WIFI, Wireless VAV and FCU Controllers. Quantum also developed a fully programmable controller which is a requirement for four seasonal countries.

This business division offers a single source of technological, engineering and project management turnkey solutions to fulfill the customers' building management needs. As solutions range from design, procurement, installation, commissioning, user training to maintenance services, these integrated services are able to achieve cost effectiveness.

The product systems are used extensively in green-building applications, vivariums, laboratories, data-centers, waste-water treatment plants, institutions, offices, retail malls, etc. In recognition of its market reach, Quantum Automation was awarded the Market Leadership for Building Management System in Singapore in 2008 by Frost & Sullivan.

**Quantum Automation** provides end-users with a complete package of seamless integrated building control systems and solutions enhanced by the latest technologies:

- Integrated Building Management System
- Integrated Security System
- Contactless PS21 Smartcard Access System
- CCTV, Digital Video Recording System
- Anti-Terrorism System
- Soft Addressable Fire Alarm System
- Intelligent Home Automation System
- Public Display System
- Automated Blind System
- Digital Public Address System
- Energy Management System and Services
- Clean Room / Laboratory Control System
- Remote Site Monitoring System
- Car Park Ticket Management System
- Service Support and Maintenance



Quantum expanded overseas in 2001, laying the groundwork for extending its reach in the region. As a leader in cutting-edge integrated intelligent building management solutions, Quantum has continuously developed solutions that are driven by computerised control and internet communication technologies which are applied in intelligent buildings, industrial and home automation energy management and site monitoring.

Quantum's key focus is on building management software and hardware. In 2009, the company was awarded the International Quality Crown – Gold Award by an international selection committee for demonstrating outstanding performance in the area of quality management.



### GEOGRAPHICAL OUTREACH

- Malaysia
- China
- United Arab Emirates
- India
- Indonesia
- United States of America
- Saudi Arabia
- Ukraine
- Oman
- Abu Dhabi

Besides providing technical expertise and comprehensive product solutions, Quantum Automation's dedicated customer service ensures that customers enjoy strong after-sales maintenance support, as well as assuring a standing inventory of mandatory spare parts for lifelong services for each installed system.

### PRODUCTS

#### QA iCON DDC Controller

Programmable Controllers

- iCON-1900, iCON-3400, iCON-4600 Universal Controllers,
- iRouter Multi-node Routing Hardware
- iCON-0800 VAV Controller
- iCON-1600 Digital Controller
- iCON-1100 FCU Controller



#### QA iNEXUS Integrated Building Management System Architecture

The iNEXUS system architecture is the future in building & industrial process control and automation management. It employs open technologies to provide visualisation, data acquisition and supervisory control of plant or facilities operations. iNEXUS provides a platform which seamlessly integrates all the complex mechanical, electrical and IT services systems with powerful management software modules.



#### Under Quantum Automation's portfolio includes the following:

- QA-700 Series FCU Thermostat
- Temperature Sensor (duct-type, immersed or averaging)
- Other Sensors (humidity, pressure, CO / CO2 contents or other parameters)
- Actuators and Valves (dampers and valve actuators)
- CCTV System (Analogue / IP-based)

# CONTACT US

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