Electronics

The Electronics sector helps customers transform to meet environmental challenges and manage their operations in a more resource-efficient manner.
EXPANDING MARKETS, EXECUTING SOLUTIONS

Revenue for the Electronics sector was comparable to 2009 despite the uncertain global economic conditions. PBT was 11% higher and the order book remains healthy with new contracts secured.

During the year, ST Electronics won several contracts including its first contract to provide an AFCS to Bangkok BRT, a contract to install the Signalling System for the Singapore Downtown Line and a US$21.5m AMR radio transceivers contract from Arad Technologies. In product sales, ST Electronics has expanded its market reach to more than 100 countries.

The sector has also embarked on its new business thrust into the development and marketing of Eco-enabling ICT solutions. These Eco-Smart products and solutions include IES, Advanced Metering Infrastructure (AMI), Green ICT infrastructure and intelligent transport systems. ST Electronics helps customers transform to meet environmental challenges and manage their operations in a more resource-efficient manner. The sector has signed a strategic partnership with Sino-Singapore Tianjin Eco-City Investment & Development Co Ltd for the development of eco-solutions for the Eco-City. Another significant milestone is its participation in the EMA IES pilot project in Singapore.

ST Electronics’ strength in exploiting dual use technologies, and its extensive experience and skills in its three core business groups, have made it a trusted partner of its customers, both government and commercial.

LARGE-SCALE SYSTEMS GROUP (LSG)

The rapid urbanisation of cities around the region has created opportunities for the sector’s MRT electronics systems. Krungthep Thanakom Co Ltd awarded the company the Bangkok BRT AFCS contract. The first route of the new BRT opened in September 2010. The company was also awarded a AFCS contract for the Bangkok Mass Transit System Sukhumvit Line which is to be delivered by the second half of 2011.

During the year, LSG also received orders from train manufacturers in China for its Passenger Information Systems that would be installed in the Singapore Downtown Line MRT, the Rio de Janeiro metro vehicles in Brazil and Izmir Light Rail Transit System in Turkey. The sector’s overseas rail electronics contracts totalled about $150m for the year.

LSG continued to secure a number of security systems projects in Singapore. These included the security system for the Marina Bay Financial Centre Phase II and an accreditation and access control project for the 2010 Formula 1 Singapore Grand Prix.

In May, the sector was awarded a contract for an airfield ground lighting control and monitoring system for Singapore’s Changi International Airport. In addition, it delivered a Meteorological Doppler Weather Radar System for the National Environment Agency, in time for the Youth Olympic Games held in Singapore during the year.

Eco-Smart products and solutions include intelligent energy systems, advanced metering infrastructure, Green ICT infrastructure and intelligent transport systems.
Electronics

In new product development, LSG showcased its Venus USV at the Singapore Airshow and Euronaval in 2010.

ST Electronics continues to secure new customers for its VSAT products and solutions in Bulgaria, China, Finland, India and Madagascar.

COMMUNICATION & SENSOR SYSTEMS GROUP (CSG)

The opening of Resorts World Sentosa in January saw the successful delivery of the company’s integrated security system, IT infrastructure and a carpark guidance and payment system.

Through its subsidiary, Telematics Wireless, ST Electronics was awarded a contract to provide SMART vehicle and asset tracking devices for the recovery of stolen vehicles and goods. The SMART tracking devices are used in Brazil, Argentina and Europe.

In the area of satellite network systems, ST Electronics continues to secure new customers for its VSAT products and solutions in Bulgaria, China, Finland, India and Madagascar. A COMSYS Maritime VSAT report, released in June, noted that the satellite communications platform from VT iDirect (iDirect), a global company headquartered in the US, is the system of choice for both service providers and end users. Twelve, or 80%, of the top 15 maritime service providers now leverage iDirect’s technology.

In addition, iDirect expanded its new DVB-S2/Evolution platform with improvements in performance, efficiency and flexibility. It also strengthened its strategic partnership with Verizon Business which started to test iDirect Evolution for its 2011-2012 network rollout over Verizon’s 500 retail sites in the US. Intelsat General has worked with iDirect Government Technologies (iGT) to implement its SatManage Network management system to support a major maritime network for military vessels.

iGT is now operating under a US Government approved Proxy Agreement and may pursue classified government and military contracts.

SOFTWARE SYSTEMS GROUP (SSG)

SSG achieved several milestones during the year, including winning a contract from the Department of Civil Aviation in Ecuador and delivering the Royal Thai Air Force’s first F16A networked mission trainers over two separate locations in the region. In Singapore, ST Electronics led a consortium in delivering a 3D virtual world, the Singapore 2010 Odyssey, to the Infocomm Development Authority and the Singapore 2010 Youth Olympic Games Organising Committee for the inaugural Youth Olympic Games. ST Electronics also implemented K-Link, an Internet-based one stop platform linking all kindergartens directly to the Singapore Ministry of Education.

With the growing migration to the Cloud, ST Electronics’ data centre co-location business has met with good success. It has recently won another contract to provide 20,000 sq ft of premium data centre space for a major multinational company to host its customer applications.

In the area of capability development, Antycip Simulation, ST Electronics’ subsidiary in Europe, released new features for its MyModels and
MyBehaviour which enable quick generation of high fidelity models in simulation and training applications. Through close partnership with CMLabs, the company developed two state-of-the-art Vortex Crane Simulators for PNI Training Centre in Norway, for training crane operators, banksmen and slingers.

VT MÄK (MÄK), ST Electronics’ simulation company in the US, released its 3D visualisation solution, VR-Vantage XR and VR-TheWorld Server, from which simulation and visualisation applications can stream terrain directly as users move about the world. MÄK is also now able to support the HLA Evolved, an international simulation networking standard (IEEE-1516.2010). Embraer has selected MÄK’s VR-Vantage as part of its Mission Planning Station and Mission Debriefing Station to support pilots for operation on the Super Tucano aircraft.

**MAJOR PROJECTS**

A leading supplier of AMR and AMI solutions, ST Electronics will provide AMR radio transceivers to Arad Technologies till 2015. Radio transceivers are a key component in smart AMR meters which are used to monitor water, electricity or gas usage. These transceivers will be deployed in China, Europe, India and the US.

The company will also be participating in EMAs milestone IES pilot project in partnership with Accenture Pte Ltd. The IES is an advanced metering infrastructure and smart grid pilot that will test smart grid applications and intelligent technologies before implementing them throughout Singapore. ST Electronics will design and implement the critical infrastructure that is necessary to enable smart grid applications.

During the year, ST Electronics successfully completed the delivery of platform screen doors, integrated supervisory control, signalling and various systems for the Circle Line, Stages 1 and 2. It extended its involvement in Singapore’s MRT development by securing a contract from Invensys Rail to install a Signalling System for the Downtown Line, which is expected to complete by 2016.

Other significant projects include the LEARNet programme for the Third Generation SAF servicemen to learn ‘on-the-go’, the delivery of the first Aerodrome Simulator System in East Africa to Tanzania Civil Aviation Authority and the implementation of MÄK’s and Antycip Simulation’s solutions for the Spanish Army.

1,200 students from over 25 schools gathered online in the Singapore 2010 Odyssey for a virtual pledge-taking ceremony for the National Day celebrations.