

## REMOTEWORX® is a customizable hardware and software platform that enables users to rapidly deploy and integrate cloud based data for monitoring and control purposes



REMOTEWORX® was recently launched and is a solution jointly developed by Adroit Technologies and Systems Automation and Management (SAM) and enters the Machine-to-Machine (M2M) market with this end-to-end offering. Managing Director of Adroit, Dave Wibberley said, *"We have taken the difficult aspects of M2M out of the equation, namely network dependent communications. This allows customers and partners to focus on building solutions."*

*offers advanced connectivity of devices, systems and services that goes beyond machine-to-machine (M2M) communications and covers a variety of protocols, domains and applications. This interconnection is ushering in automation in nearly all fields while enabling advanced applications and expansion"*

*"It is estimated by the experts that by 2020 the IoT will consist of almost 50 billion objects. The IoT*

Industry sectors are now able to receive affordable, global end-to-end IP based connectivity through the REMOTEWORX® communications driver. This communications driver delivers meaningful information as translated by an application that received data of a captured event through a network from a device.

The solution is built on Adroit SCADA and REMOTEWORX® for both control and data acquisition to and from remote sites. The hardware was co-developed by Systems Automation and Management (SAM), and includes standard on-board digital and analogue I/O, GPS, Vibration, Temperature and a variety of secondary interfaces such as RS485, WiFi, Ethernet, Zigbee and RFID for flexible applications.

REMOTEWORX® can be efficiently and effectively applied to industrial, commercial and residential applications. Some areas of control and monitoring in these applications include energy monitoring and management, asset management, security management, environmental monitoring, access control, quality control and building management.

With an internet GSM network the hardware, I/O Server and application Server communicates and is controlled and monitored via the user interface. It can be accessed with a desktop computer, laptop, tablet or smartphone with a safe internet connection.

One of the key system capabilities is that it has no complex network requirements. There is no need for an APN and fixed IPs as the REMOTEWORX® I/O Board acts as communications master. At the core it is designed with telemetry and telematics and includes data usage analytics per device as well as device management information.

SAM developed the platform's hardware with various sensors and communication technologies for flexible applications. Adroit Technologies in turn developed the communications using the M2M protocol they developed for the Mitsubishi Electric PLC range of products.

Dave Wibberley explains that M2M technology is often mentioned in the same breath as the Internet of Things (IoT), but has an industry heritage and fits into the Industry 4.0 ideology, in which devices

are all interconnected. The idea of M2M technology is to automate sensors and communication in the manufacturing sector.

This technology is usually combined with IoT technologies such as big data and cloud solutions, but can be used independently. Data collection, whether on-board or over the cloud, makes identifying trends easier and drives efficiencies and cost savings.

Use REMOTEWORX® to improve quality, service, safety, productivity and profits.

For more information contact Adroit Technologies on +27 (0)11 658 8100 or email [info@adroit.co.za](mailto:info@adroit.co.za).

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