The WINSPlatform Solution

MAINTEK

Water **I**ntegrated **N**etwork **S**olution **Platform** is the first Malaysian controller that includes Web Server, PLC, RTU, SCADA and Mobile Accessibility functions in one single unit.

MULTI-PROTOCOL SUPPORTED

DETAILED ANALYSIS

HUMAN MACHINE INTERFACE

ALARM ALERT

SECURITY

BUILT-IN WEB SERVER

POWERFUL VIRTUALIZATION

TELEMETRY

ADVANCED REMOTE CONTROL

ARTIFICIAL INTELLIGENCE

CMMS

AUTOMATION

ACQUISITION

REAL TIME
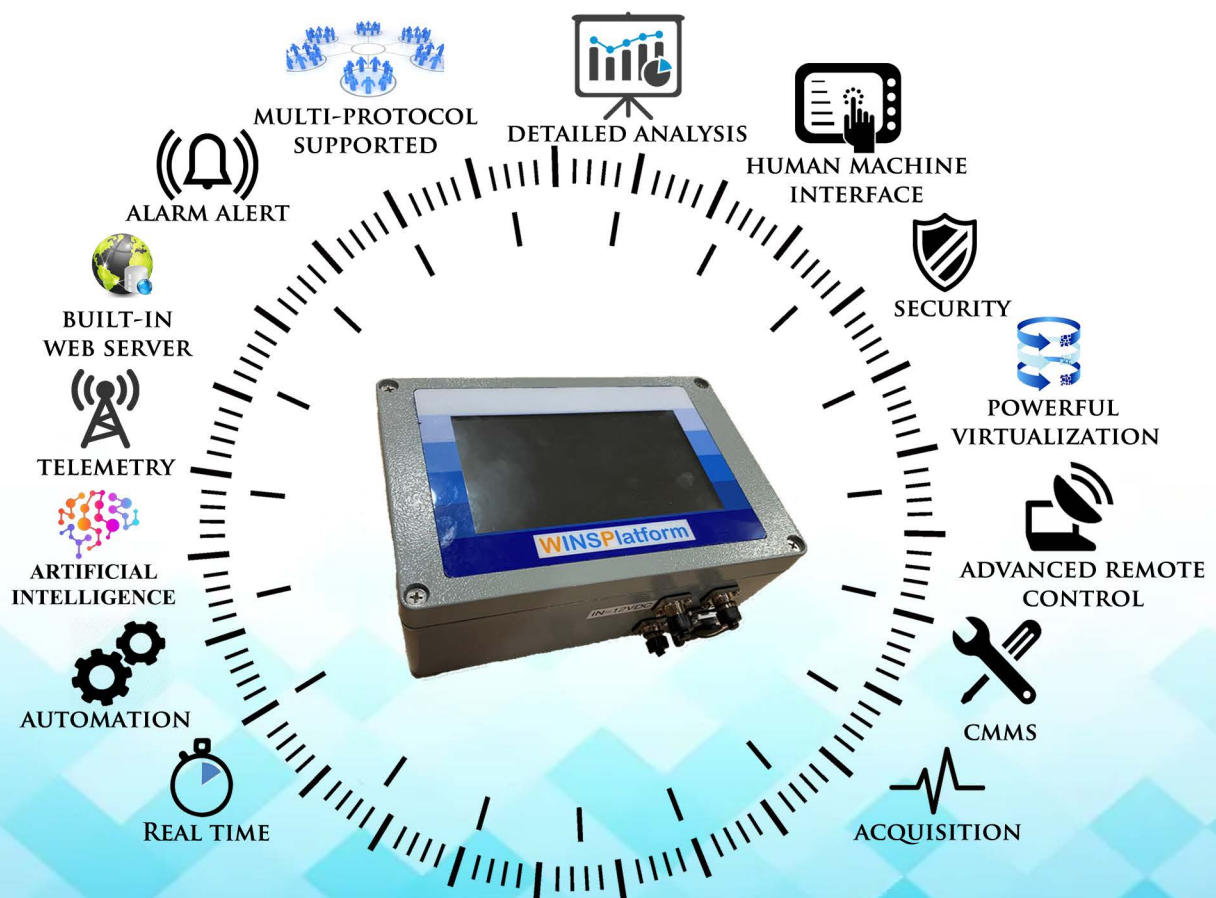
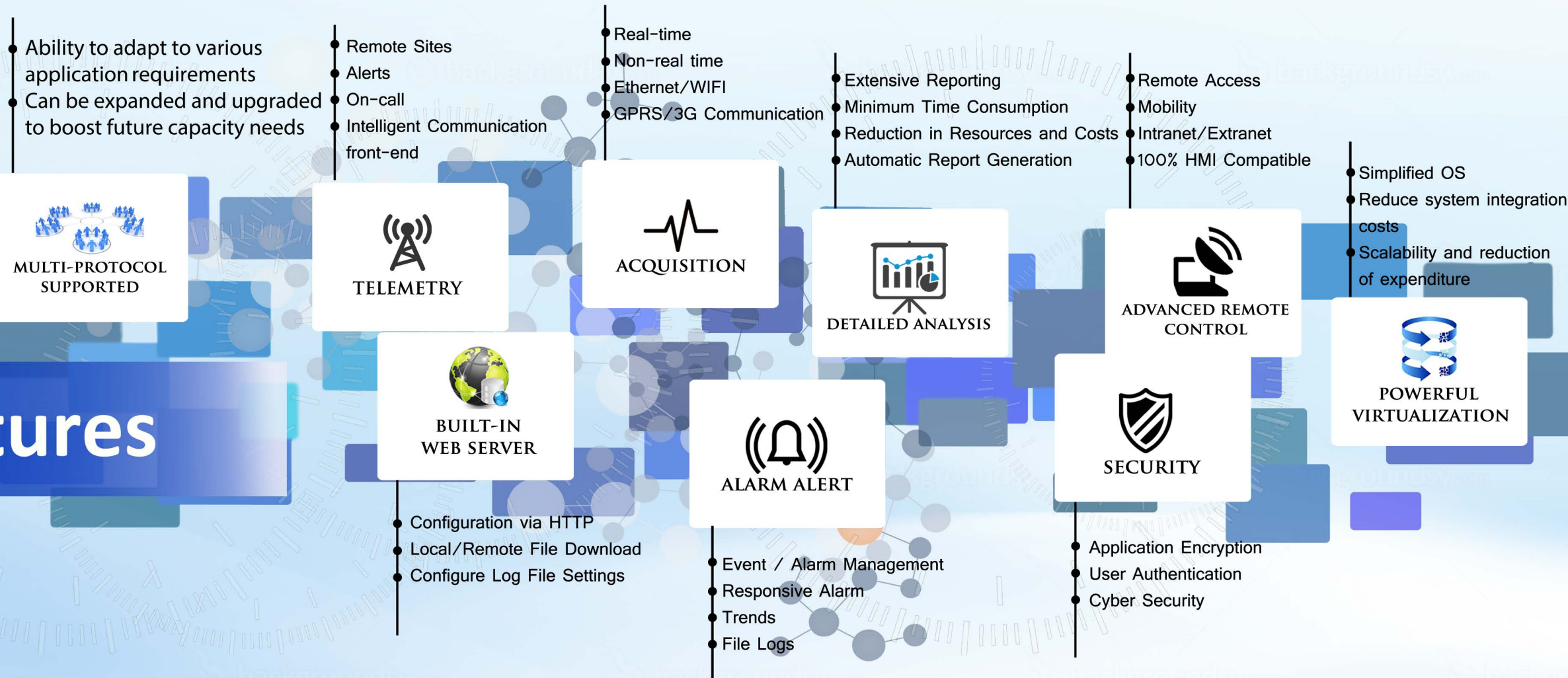WINSPlatform

GT500X SERIES REMOTE TERMINAL UNIT

WATER INTEGRATED NETWORK SCADA PLATFORM

WINSPlatform GT500X Series RTU capable of directly interfacing with the majority of measuring equipment and devices present on site (flow meters, level sensor, water quality sensors, system analyzers, power meter, actuator, motor, pumps and etc). Implementing deep learning algorithm, GT500X is the one-stop solution to satisfy any application, with remote control access, and data-driven learning capabilities.

Key Features :
- Data acquisition
- Event processing
- Alarms
- Data calculations
- Message transmission (SMS, Internet, etc.)
- Data archiving
- Source timestamping

- User profile management
- Virtualization
- Data diagnostics assistance
- Remote Control
- Built-in Web Server for configuration via WiFI
- Reliable security
- Works with unlimited workstation applications

GT500X Features

MULTI-PROTOCOL SUPPORTED
- Ability to adapt to various application requirements
- Can be expanded and upgraded to boost future capacity needs

TELEMETRY
- Remote Sites
- Alerts
- On-call
- Intelligent Communication front-end

BUILT-IN WEB SERVER
- Configuration via HTTP
- Local/Remote File Download
- Configure Log File Settings

ACQUISITION
- Real-time
- Non-real time
- Ethernet/WIFI
- GPRS/3G Communication

DETAILED ANALYSIS
- Extensive Reporting
- Minimum Time Consumption
- Reduction in Resources and Costs
- Automatic Report Generation

ALARM ALERT
- Event / Alarm Management
- Responsive Alarm
- Trends
- File Logs

ADVANCED REMOTE CONTROL
- Remote Access
- Mobility
- Intranet/Extranet
- 100% HMI Compatible

SECURITY
- Application Encryption
- User Authentication
- Cyber Security

POWERFUL VIRTUALIZATION
- Simplified OS
- Reduce system integration costs
- Scalability and reduction of expenditure

> Field-tested quality and proven with more than 1000 sites as references
> Compatible with all fields of activity
> Open Architecture Based - Open to all types of hardware, protocols, customized development and applications
> Latest technology
> Top quality and responsive support
> Designed to work in most economic and power saving way

Its IT Standards and Open Structure Support makes GT500X stay ahead from others.

With GT500X, it is the only platform with off-the-shelf features or those developed with specific application requirements, while you automatically benefit from the services provided by the infrastructure such as configuration, dynamic persistence and redundancy. The standardization and open design offer endless capability and extension possibilities with GT500X.

MAINTEK

Specifications

General

Dimensions	200 (W) x 120 (H) x 100 (D) mm
Weight	Approx. 2kg
Enclosure material	IP-65 Aluminium Alloy Enclosure
Operating Temperature	-30 to +85 degree Celsius
Humidity Test	95% (RH) Relative Humidity
LCD Display	7" Color LCD Capacitive Multi-touch Screen @ 1280 x 720 resolution & 4K Micro HDMI port
CPU Processor	Quad Core 64-bit Cortex A-55 @ 2.0GHz

Power Supply

Operating Voltage	9-36Vdc
Power Consumption	10mA in Standby Mode; 100mA during Data Transfer
Compatibility	Solar Power System and AC Power System

Digital Inputs

Number of Inputs	24 bi-directional channel
Type	24 logic level
Address Assignment	User configurable

Digital Output

Number of Output	20 with open drain FET and logic output
Additional Output	4 Relay (Free Contact) Output

Analog Inputs

Number of Inputs	4 Input Channels with opto coupler
Calibration	2-points, full user control
Supported Type	1 isolated 3-wired / 4-wired input; 2 isolated 2-wired inputs; 3 common reference 2-wired inputs
Address Assignment	User configurable

Analog Outputs

Number of Output	4 Analog output channels
Others	Voltage Output 0-10Vdc or Current Output 4-20mA

Other Ports

RS232 Port	Built-in 1 x RS232 Serial Port Connector
RS485 Port	Built-in 1 x RS485 Serial Port Connector
USB	4 x USB type A & 1 x USB type C
Network Services	2 x RJ45 10/100 Ethernet Port
SDI-12	2 SDI-12 Channel with shared digital channel
Others	Baud rate : 300 to 115,200

Storage

Internal Capacity	64GB eMMC flash memory with capability to store at least 3 years of data;for minimum 8 parameters
Compatibility	Compatible with SD card for storage expansion
Capacity	Approx 90,000 data points per megabyte
RAM	4GB LPDDR4

Function

Data Collection Application	Rainfall, Water Level, River Flow, Evaporation, Siren, Air Quality, Water Quality, Soil Moisture
Communication Protocol	FTP, http, DNP3, MODBUS TCP, DB Sync
Data Format	TIDEDA, AQUARIUS, CSV, JSON, XML
Server	Able to Sync Data up to 8 Servers
SMS	SMS Data/Event/Alarm up to 10 Users
Communication Modem	Built-In 4G GSM Modem(optional); Compatible with NB-IOT Modem,via USB Port
Others	Supports data sending via Satellite communication

System

Data Logging	Default 5 minutes time stamp
Data Retrieval	Via Internet Browser in Fixed IP or Wireless LAN
Display Functions	Channel data, alarms, system status
Firmware Upgrade via	Wireless LAN and USB
NTP Protocol	RTC auto sync with NTP
Others	Built-in Wireless 2.4GHz and 5GHz IEEE 802.11b/g/n/ac, and Bluetooth 5.0

Certifications

BUATAN MALAYSIA
MADE IN MALAYSIA

SIRIM QAS INTERNATIONAL
IEC 61000-6-2
IEC 61000-6-4

FEDERATION OF MALAYSIAN MANUFACTURERS

RoHS compliant

Client List :-

Since 2002

Since 2011

Since 1995 — MÖLNLYCKE HEALTH CARE

RIVER of LIFE
Since 2012

WINSPlatform References :-