

R-Win/io Features & Benefits

Vs-1.2-151014

AGM is offering its knowledge and solutions in communications and control, and 33 years of experience in **economical Asset Optimization** projects for SCADA/DCS networks.

This document describes AGM's Asset Optimization innovative solution for Small Works (SW), water/WW, power substations, oil & gas and telemetry remote processing assets, based on AGM's innovative original development of R-Win/io smart networking product.

<i>Features</i>	<i>Benefits</i>
Real time monitoring & control	<ul style="list-style-type: none"> a. Responding to asset and environment changing conditions, preventing risks development on asset (equipment) & media (water/WW, power, oil & gas). b. Conforming to the EU & US regulations.
Smart communication management by R-Win/io	<ul style="list-style-type: none"> a. Change-of-state communications interrupts, no "polling" by control center needed. b. Data filtering, lowering the wireless traffic, speeding the response time. c. Each unit could serve as "Ad-Hoc" mini control center for remote neighboring stations, sharing a control sub-process.
Lateral communication between assets, "MESH" networking	<ul style="list-style-type: none"> a. System redundancy & resilience b. Asset operational upgrade c. Network optimization
Up to 16 I/Os build in	<ul style="list-style-type: none"> a. Saving equipment cost (small PLC). b. Dynamic configuration, meeting SW requirements. <p><i>8 digital inputs/outputs for connecting all kinds of switches (floats, limit switches, etc.) and activating relays, alarms, etc..</i></p> <p><i>8 analog voltage/current (software selectable) inputs for connecting flow meters, pressure meters, vibration transmitters, etc..</i></p>
Auto reconnection after communication failure	No need to "run to the field" to reset the unit in case of communication failure.
Direct Communication with client's server using static IP address	<ul style="list-style-type: none"> a. Saving third party communication fees b. Improved data security c. Upgrade system response time
Advanced on-board & protocol security tools	System data and communication security upgrade.
Standard interfaces using Modbus, TCP, TCP-IP, TI, DF1 and more. Additional protocols are available.	<ul style="list-style-type: none"> a. Easy to install and maintain in new and existing installations, lengthening existing asset life cycle. b. Smooth & low cost integration with off-the-shelf standard equipment.
Integrated with R-Win network - <i>(the "big brother", installed between a standard PLC and a wireless device, RF or cellular, or both in parallel for extra redundancy).</i>	<ul style="list-style-type: none"> a. A system-wide solution for optimization & economical upgrade. b. Could function as a stand-alone system with its own compact HMI, and/or integrated with full scale existing SCADA system, using standard methods and tools.
Gradual installation	Low investment & risk (could start with as low as 4 stations and a temporary control center).
Low cost of R-Win/io	Asset Optimization, Performance Upgrade, data security & regulations conformity achieved through minimal investment.
Proven solution	The R-Win solution is commercially installed and effectively functioning for 3 years.