

Obvius AcquiSuite A8820 Data Acquisition Server



DESCRIPTION

The AcquiSuite A8820 is an intelligent, flexible data acquisition server allowing users to collect data from a broad range of meters and environmental sensors. Designed to connect to IP-based applications such as enterprise energy management, demand response and smart grid programs, the AcquiSuite server connects thousands of data points benchmark energy usage and reduce energy costs. Featuring Dual Ethernet ports and Dual Modbus (RS485) ports, the AcquiSuite A8820 provides expanded capacity and flexibility to address a broad range of applications.

EMBEDDED OEM SOLUTION

The compact EMB footprint and industrial temperature range 22°F to 158°F (-30°C to 70°C) makes this a perfect solution for embedded applications. Reduce development time and speed up integration by collecting and distributing energy information directly from your equipment.

DATA COLLECTION

The AcquiSuite A8820 collects and logs data from connected (wired or wireless) devices based on user selected intervals. Data from downstream devices is time stamped and stored locally in non-volatile memory until the next scheduled upload or manual download. Using an Ethernet (LAN) connection you can push or pull data via HTTP, XML, FTP or any custom protocol utilizing our AcquiSuite Module to build your own application. Dual Ethernet ports allow for separate and secure upstream connections to external networks and downstream connections to the internal device networks.

PARTNERS

Obvius integration and software partner support services provide a the very best and most complete energy monitoring solutions.

INSTALLATION & FEATURES

No software is required. Easily access information through ANY web browser. There are several additional features including alarming, SNMP Traps, network configuration, wireless diagnostics, USB, security provisions and backlit LCD. Our integrated device driver library is designed to speed up installation and lower integration costs through plug-and-play connectivity.

COMPATIBILITY

The AcquiSuite is compatible with nearly any front-end software platform allowing customers to use a variety of reporting tools; whether it's a local server or an enterprise wide reporting suite.

APPLICATIONS

- Measurement and verification (M&V)
- Tenant billing
- Reduce energy costs
- Access energy information from local or remote sites
- Benchmark building energy usage
- View "real time" performance data
- Track energy use and peak demand for Demand Response programs
- Monitor performance of critical systems (lighting, HVAC, PDUs, inverters, etc.)
- Alarm notification for data points above or below target levels (including SNMP Traps)
- Monitor renewable energy performance and production
- Push or pull meter data to energy dashboards, kiosks and software applications
- LEED / Energy Star certification

SPECIFICATIONS

Processor	i.MX 6UltraLite
Operating System	Linux 4.x
Memory	x512 MB RAM
Flash ROM	4 GB NOR Flash
Interval Recording	1 to 60 minutes, user selectable (default 15 minutes)
LEDs	Ethernet, Modbus TX/RX, power, alarm
Console	128 x 64 pixel LCD with 5 button interface
Power	
Power Supply*	24VDC, 500mA *This unit is to be sourced by a Class 2 power supply with the following output: 24VDC, 500mA min not to exceed 8A
Isolation	RJ45 Ethernet and RS-485 port are isolated to 1500VDC from the main board (Power and USB non-isolated)
Communication	
Protocols	Modbus/RTU, Modbus/TCP, TCP/IP, HTTP/HTML, FTP, NTP, XML, SNMP-Trap
LAN	Two RJ45 10/100 Ethernet, full half duplex, auto polarity
USB	USB expansion port
Security	SSL/TLS
Inputs	
Serial Ports	Two RS-485 Modbus, each supporting up to 32 external devices (64 devices total)
Physical	
Weight	0.42lbs (0.19kg)
Size	4.61" W x 5.19" H x 1.9" D (117.1mm x 131.9mm x 48.3mm)
Environment	
North America	-22°F to 158°F (-30°C to 70°C), 95% RH, non-condensing
Altitude	2000M max
Pollution	Degree 2
Codes & Standards	
FCC CFR 47 Part 15, Class A, EN 61000, EN 61326, CE, UL61010 Recognized	
Additional Notes	
NEMA enclosures available upon request	
Cellular modems available upon request	
Manufactured in U.S.A.	

ORDERING INFORMATION

CAT. NO.	DESCRIPTION
A8820-000	Energy Monitoring HUB EMB Modbus/TCP/Ethernet. Power Supply not included.

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LES-G-10623/G22-aa