

EMB HubLite



The Leviton EMB HubLite is an intelligent, flexible data acquisition server allowing users to collect energy data from pulse output meters through 4 pulse inputs. Designed to connect to IP-based applications such as enterprise energy management, demand response and smart grid programs, the EMB HubLite server lets you benchmark energy usage and reduce energy costs.

EMBEDDED (OEM) SOLUTION

The compact EMB HubLite footprint and industrial temperature range (-30° 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 EMB HubLite collects and logs data from connected pulse output or Modbus TCP devices based on user selected intervals. Data from downstream devices are time stamped and stored in non-volatile memory. This interval data is stored locally 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 EMB HubLite Module to build your own application, including integrated cellular communication options.

INSTALLATION & FEATURES

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

COMPATIBILITY

The EMB HubLite 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

- Create load profiles for energy purchases
- Utility submetering (electricity, gas, water, etc.)
- Measurement and verification (M&V)
- Tenant billing
- 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 utility meters for rebate program compliance
- Alarm notification for data points above or below target levels (including SNMP Traps)
- Push or pull meter data to energy dashboards, kiosks and software applications
- LEED / Energy Star certification

SPECIFICATIONS	
Processor	ARM 9 embedded CPU
Operating System	Linux 2.6
Memory	32 MB RAM
Flash ROM	16 MB NOR Flash
Interval Recording	1 to 60 minutes, user selectable (default 15 minutes)
LEDs	Ethernet, Pulse (x4), power, alarm
Console	2 x 16 LCD character, two push buttons
POWER	
Power Supply	24VDC, 500mA, Required (not included) *This unit is to be sourced by a Class 2 power supply with the following output: 24VDC, 500mA min not to exceed 8A. Note: Only 350mA is required if the USB port is not used.
Isolation	RJ45 Ethernet is isolated to 1500VDC from the main board. (Power input, Pulse inputs and USB non-isolated)
COMMUNICATION	
Protocols	Modbus/TCP, TCP/IP, PPP, HTTP/HTML, FTP, NTP, XML, SNMP-Trap
LAN	RJ45 10/100 Ethernet, full/half duplex, auto polarity
USB	USB expansion port (cellular modem options available)
INPUTS	
I/O	4x Pulse inputs, dry contact, standard or KYZ, closure threshold 100 to 2.5K user selectable
Pulse Rate	Pulse input maximum rate 10Hz, minimum pulse width 50ms
Storage	Pulse count values stored in non-volatile memory
PHYSICAL	
Weight	0.42lbs (0.19g)
Size	4" x 4.25" x 2" (102mm x 108mm x 51mm)
ENVIRONMENT	
North America	-30° to 70°C, 0-95% RH, non-condensing
Altitude	2000M max
Pollution	Degree 2
CODES AND STANDARDS	
Emissions	FCC CFR 47 Part 15, Class A, EN 61000, EN61326
Safety	UL61010 Recognized, EN 61010
ADDITIONAL NOTES	
NEMA enclosures available upon request	
Manufactured in the USA	

ORDERING INFORMATION

CAT. NO	DESCRIPTION
A7810-000	EMB HubLite
YBM07-001	Power Brick

NOTE: The Power Brick is required to power the EMB HubLite but is not included and must be ordered separately.

LEVITON SPECIFICATION SUBMITTAL	
JOB NAME:	CATALOG NUMBERS:
JOB NUMBER:	