

AURORA LOGGER

RESIDENTIAL

GENERAL SPECIFICATIONS

The Aurora Logger Residential is a high-performance, customer data management system for home PV system operations. This system manager collects data from Power-one inverters, logs it on site, and then acts as an internet gateway to send the data to be stored on Power-One's servers where it is accessible via a web browser.

The residential solution allows home owners to track energy production that will both; demonstrate the environmental benefits such as carbon reduction; and will make performance degradation more visible indicating the need for timely cleaning or maintenance.

Aurora Logger Residential model includes:

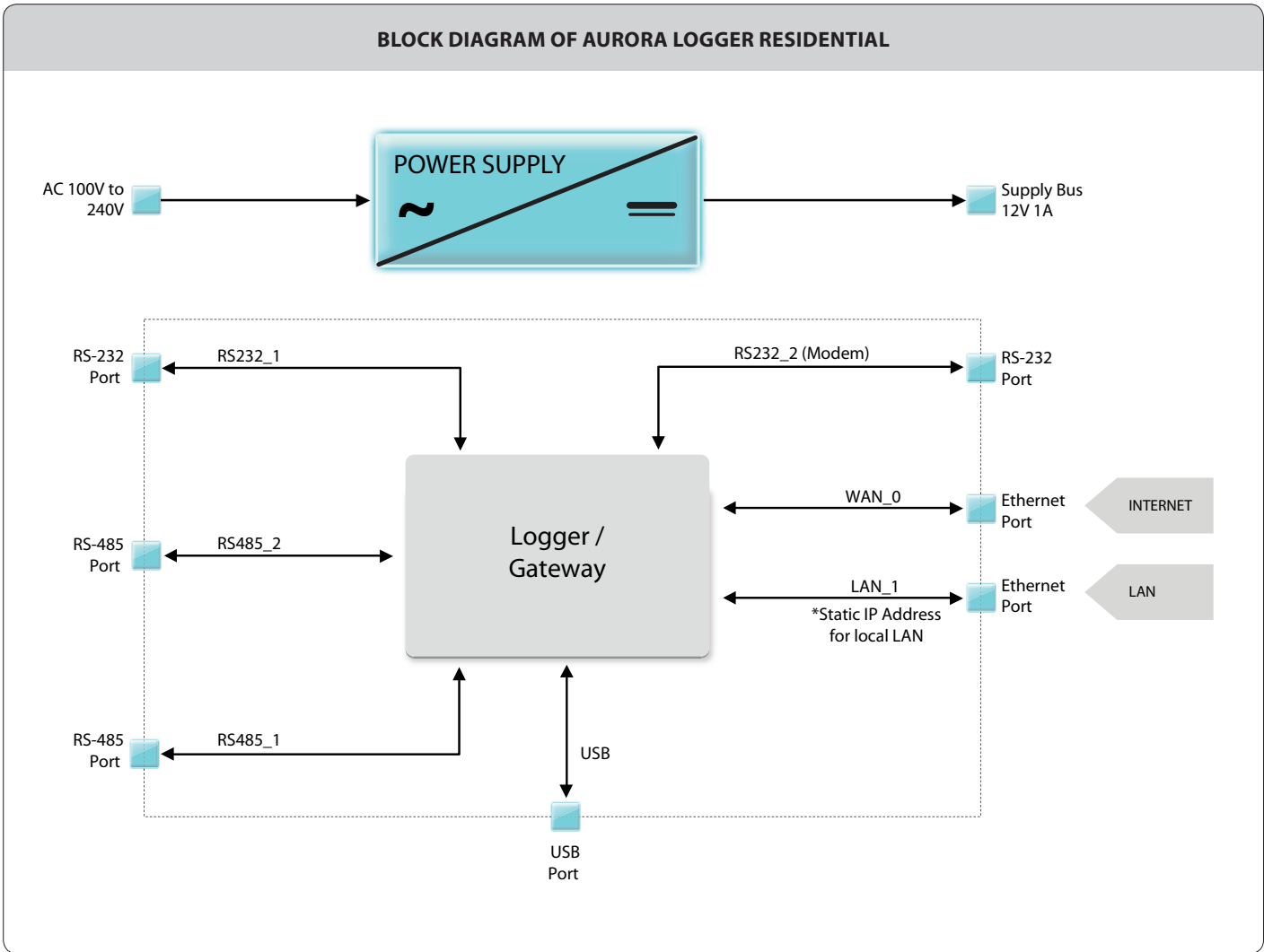
- Data management system with serial and Ethernet ports to provide data logging for 5 Power-One inverters
- 12 VDC, 1A power supply



Features

- Quick installation and fast provisioning (Including DHCP client for Auto IP assignment)
- Collects data and uploads information over the Internet in near real-time to the Aurora Vision platform
- Reliable, secure transmission of operational data to Aurora Vision. Time-stamps and CRC checksums are used to secure data log files and prevent tampering
- Remote configuration capabilities facilitate upgrades over the Internet

BLOCK DIAGRAM OF AURORA LOGGER RESIDENTIAL



Block Diagram

| TECHNICAL DATA | AURORA LOGGER RESIDENTIAL |
|--|---|
| | VSN-MGR-RES-P1 |
| Platform | |
| Computing Environment | High performance embedded computing platform |
| Performance Management | Compatible with Aurora Vision and Aurora Easy View software-as-a-Service solutions for real time performance management and reporting |
| Monitoring | Inverter Direct |
| Communication Interfaces | |
| Serial Port Interface | (2) RS-485 + (2) RS-232 |
| RS-485 Port Configuration | Non-isolated Modbus or Power-One protocol support |
| RS-232 Port Configuration | Modbus |
| Maximum Devices | 5 Power-One Inverters |
| Fieldbus Cable | RS-485 Shielded twisted pair. Recommend Belden #3016A for 3 conductors |
| Ethernet Port 0 | Firewall protected Ethernet WAN port for internet connection |
| Ethernet Port 1 | Local LAN with static IP address |
| Ethernet Connections | RJ-45 Ethernet 10/100 base-T (LAN/WAN) |
| Communication Protocol | |
| Plant Fieldbus Protocols | Power-One, Modbus RTU, SunSpec |
| LAN/WAN Protocols | Modbus/TCP, HTTP, DHCP, SSL, SSH, FTP, XML |
| Data Logging Specifications | |
| Data Sampling Rate | High frequency data sampling - 1 minute average |
| Logging | Real time power values at 15-minute intervals. Other intervals available. |
| Local Storage | Log data for 30 days based on 15-minute intervals. (Days logged reduced by intervals shorter than 15-minute) |
| Upgradeability | Field upgradable over the Internet or locally via USB memory stick |
| Power Supply | |
| DC Power Supply Input | 100 - 240 VAC |
| DC Power Supply Output | 12VDC, 1A |
| Environmental Protection Rating | |
| Ambient Temperature Range | 0°C to 40°C |
| Environmental Protection Rating | IP20 |
| Compliance | |
| Humidity | 0 to 90% non condensing |
| Emission | FCC Part 15 Class B, CISPR 22, EN 55022 Conducted and Radiated Emission |
| Immunity | EN55024 |
| Physical Parameters (per unit) | |
| Dimensions | 5.5" x 5.25" x 1" (.14m .13m x .03m) |
| Weight | 2 lbs (0.91 kg) |



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