



ADVANTAGE SERIES
FIRMWARE RELEASE NOTES

Version 1.1.3.0

24-NOV-2021

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1 GENERAL

1.1 SCOPE

This document is the Release Notes for Advantage Series Firmware Version 1.1.3.0

1.2 ABBREVIATIONS AND ACRONYMS

A list of the principal abbreviations and acronyms used in the document is provided here for a better understanding of this document.

| | |
|-------------|---------------------------------------|
| <i>PDU</i> | Power Distribution Unit |
| <i>GUI</i> | Graphical User Interface |
| <i>SSH</i> | Secure shell |
| <i>SNMP</i> | Simple Network Management Protocol |
| <i>SMTP</i> | Simple Mail Transfer Protocol |
| <i>LDAP</i> | Lightweight Directory Access Protocol |
| <i>CLI</i> | Command Line Interface |
| <i>Conf</i> | Configuration |
| <i>CB</i> | Circuit Breaker |
| <i>FTPS</i> | File Transfer Protocol Secure |
| <i>MAC</i> | Media Access Control |
| <i>NTP</i> | Network Time Protocol |
| <i>IP</i> | Internet Protocol |
| <i>ETH</i> | Ethernet |
| <i>SKU</i> | Stock Keeping Unit |

2 RELEASED FILES

2.1 PACKAGED FILE

ENLOGIC.TAR - [SHA256: 9182e5312006fb22de9a0d22efc03d01136d63a1edaf4ec9a0d45fdf0bf5d6eb]

| <i>Image File</i> | <i>SHA256</i> |
|----------------------------------|--|
| <i>zimage</i> | b87d92d0253070d92449d072e9ab1b6fcc432d2a43132a975e7eda95eb2e5d21 |
| <i>u-boot.bin</i> | 983905b607b235745320dfb3ddb08bda181403694738f9d33a01723cca25feef |
| <i>rootfs.ubi</i> | aae9f05c16dd62cf5899dd7846b9d9d9d391033e1c63043a2db5978c8909b5bd |
| <i>at91bootstrap.bin</i> | 8096ec83fb3f045ecd6f8fe37d3b93616959f1c768f3bdd0a378869ec01ea29 |
| <i>at91-sama5d3_xplained.dtb</i> | d461bb6660208c6168d4ecf9f588cdf7525afd79116426fa3931c881008ea07f |

2.2 SOFTWARE VERSION

FIRMWARE VERSION – 1.1.3.0

3 PRODUCT FAMILY

| <i>Product Type</i> | <i>Description</i> |
|---|--|
| <i>Input Metered (MI)</i> | PDU that have ability for aggregate power monitoring |
| <i>Outlet Metered (MO)</i> | PDU that have ability to aggregate outlet level power monitoring |
| <i>Switched (MISO)</i> | PDU that have ability to aggregate power monitoring and outlet level switching capability |
| <i>Metered and Switched per Outlet (MOSO)</i> | PDU that have ability to aggregate outlet level power monitoring and outlet level switching capability |
| <i>Inline Energy Meter (IEM)</i> | Inline Energy Meter that has ability to monitor power for attached IT equipment |

4 SKU SUPPORTED

| <i>Type</i> | <i>SKU Numbers</i> |
|---|--|
| <i>Input Metered (MI)</i> | EN1403, EN1805S, EN1902, EN1906, EN1337 , EN1315 , EN1806 , EN1326 , EN1811 , EN1815, EN1908 , EN1907, EN1339 , EN1341 , EN1927, EN1822 , EN1814 , EN1823, EN1821, EN1926, EN1343, EN1805 , EN1917 , EN1915 , EN1919 , EN1325 |
| <i>Outlet Metered (MO)</i> | EN5808, EN5810, EN5402 , EN5329 , EN5325 |
| <i>Switched (MISO)</i> | EN2316E, EN2804S, EN2808, EN2324 , EN2325 , EN2810, EN2326 , EN2333 , EN2329 , EN2402, EN2902 , EN2804 , EN2907 , EN2317, EN2812 , EN2337 , EN2403 , EN2823 , EN2339 |
| <i>Metered and Switched per Outlet (MOSO)</i> | EN6324, EN6804, EN6333, EN6808, EN6810, EN6902, EN6325 , EN6602 , EN6329 , EN6402 , EN6804S, EN6338 , EN6326 , EN6337, EN6833 , EN6829 , EN6909 , EN6908 , EN6834 |
| <i>Inline Energy Meter (IEM)</i> | EZ1732 , EZ1632 , EZ1616 , EZ1430, EZ1663 , EZ1560 , EZ1550 , EZ1716 , EZ1763 , EZ1530 |

5 PDU FEATURES ENABLED

| FEATURES | Input Metered (MI) | Outlet Switched (MS) | Outlet Metered (MO) | Metered and Switched per Outlet (MOSO) |
|--|--------------------|----------------------|---------------------|--|
| <p>DESIGN</p> <ul style="list-style-type: none"> ▪ Low profile, space saving design ▪ Ultra-low-profile circuit breakers on most models ▪ Adjustable tool-less mounting system | YES | YES | YES | YES |
| <p>PDU POWER MONITORING</p> <ul style="list-style-type: none"> ▪ PDU level watt hour power metering (kWh) ▪ PDU level power measurements (W) ▪ Input phase level power measurements (V, A, VA, kWh, pf) ▪ Circuit Breaker level current measurements ▪ High accuracy, billing grade metering capabilities ▪ Embedded memory log to record/view/report historical data ▪ User customizable alarm thresholds & notifications | YES | YES | YES | YES |
| <p>OUTLET LEVEL SWITCHING</p> <ul style="list-style-type: none"> ▪ Remote ON/OFF Power control by individual outlet ▪ User defined power-on time delay to sequence IT equipment ▪ Automatic sequencing to avoid inrush current overload ▪ Controlled with assignable roles and user access | | YES | | YES |
| <p>OUTLET LEVEL POWER MONITORING</p> <ul style="list-style-type: none"> ▪ Outlet level watt-hour power metering(kWh) ▪ Outlet level power measurements (V, A, VA, W, pf) | | | YES | YES |
| <p>ENVIRONMENTAL MANAGMENT</p> <ul style="list-style-type: none"> ▪ Optional Plug and Play environmental sensors including temperature, humidity and water leak | YES | YES | YES | YES |

| | | | | | |
|---|--|-----|-----|-----|-----|
| <p>PHYSICAL SECURITY MANAGEMENT</p> <ul style="list-style-type: none"> ▪ Rack access monitoring with door contact switch ▪ Customizable alarm thresholds and notifications | | YES | YES | YES | YES |
| <p>NETWORK MANAGEMENT AND LOCAL DISPLAY INTERFACE</p> <ul style="list-style-type: none"> ▪ Active LED display for power measurements ▪ OLED Display with high contrast ratio, easy to navigate menu and visual graphic bars for phase load balancing ▪ Full featured network management and alerting capabilities supporting HTTP, HTTPS, SSH, SNMP, FTP and EMAIL ▪ Strong encryption, passwords and advanced authorization options including local permissions, LDAP and Active Directory ▪ Daisy Chain up to 4 Rack PDU and 16 environmental sensors through single IP address | | YES | YES | YES | YES |
| <p>BRANCH CIRCUIT LOAD MONITORING</p> | | YES | YES | YES | YES |
| <p>CIRCUIT BREAKER STATUS</p> | | | YES | YES | YES |

6 ISSUES AND TASKS ADDRESSED

| <i>Issue ID</i> | <i>Description</i> |
|-----------------|---|
| EOB-1822 | When manually turning off CB1, some outlets belonging to CB1 also have voltage in serial and OLED |

7 FEATURE UPDATES FROM 1.0.6.1 BUILD TO 1.1.3.0

- Daisy Chain up to 64 PDU
- Redfish Support as per latest DMTF
- IPv6 Support Enabled
- Radius Server support Enabled
- Alarm Count increased to 80
- Trap OID mapping to its severity
- Daisy Chain communication optimized between Master and Slave PDUs
- GUI automatic refresh introduced for Control & Manage, Thresholds
- 7 Segment Border color selection for all PDUs connected in Daisy Chain
- Ehandle Support Enabled
- Automatic Firmware update to Daisy chain PDUs
- New Kernel (5.10.56) Update
- Modbus Support