



ADVANTAGE SERIES
FIRMWARE RELEASE NOTES

Version 1.1.4.1

16-DEC-2021

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1 GENERAL

1.1 SCOPE

This document is the Release Notes for Advantage Series Firmware Version 1.1.4.1

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: 412d75ecbeecf459082cb2a5108c38307c9d4f44c1ae717d370a94516faa0104]

<i>Image File</i>	<i>SHA256</i>
<i>zImage</i>	b87d92d0253070d92449d072e9ab1b6fcc432d2a43132a975e7eda95eb2e5d21
<i>u-boot.bin</i>	983905b607b235745320dfb3ddb08bda181403694738f9d33a01723cca25feef
<i>rootfs.ubi</i>	ea480b32a63fb95be8bb4d97439309a48a809a51fdc49bde5365030b36d7f9b4
<i>at91bootstrap.bin</i>	8096ec83fb3f045ecd6f8fe37d3b93616959f1c768f3bdd0a378869ec01ea29
<i>at91-sama5d3_xplained.dtb</i>	d461bb6660208c6168d4ecf9f588cdf7525afd79116426fa3931c881008ea07f

2.2 SOFTWARE VERSION

FIRMWARE VERSION – 1.1.4.1

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 , EN6905
<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>
EN20K-3:	EN2.0 - Allow PWR/DEV commands in FT Mode

7 FEATURE UPDATES FROM 1.0.6.1 BUILD TO 1.1.4.1

- 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