



ADVANTAGE SERIES
FIRMWARE RELEASE NOTES

Version 1.0.7.7

29-JUL-2021

Confidential

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1 GENERAL

1.1 SCOPE

This document is the Release Notes for Advantage Series Firmware Version 1.0.7.7

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: d15d3a8a441e0f8b905b15a4b3787edc0ac3565d16e0d479c27d479f00177fa8]

<i>Image File</i>	<i>SHA256</i>
<i>zImage</i>	e445b838fa10da09bac90cb6bae67b2c51d8e5104de0e629cc8c168cefa860b9
<i>u-boot.bin</i>	983905b607b235745320dfb3ddb08bda181403694738f9d33a01723cca25feef
<i>rootfs.ubi</i>	d36aa10075ac3f4d6c750e395096e5db1909298f108e3458621bb61d9f657c27
<i>at91bootstrap.bin</i>	8096ec83fb3f045ecdf6f8fe37d3b93616959f1c768f3bdd0a378869ec01ea29
<i>at91-sama5d3_xplained.dtb</i>	a1551025b96f98241c3c0326223b5e9bfbfe8d581d054ee0de60d8d70d4ac258

2.2 SOFTWARE VERSION

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3 PRODUCT FAMILY

Product Type	Description
<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

Type	SKU Numbers
<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
<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
<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)
DESIGN <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
PDU POWER MONITORING <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
OUTLET LEVEL SWITCHING <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
OUTLET LEVEL POWER MONITORING <ul style="list-style-type: none"> Outlet level watt-hour power metering(kWh) Outlet level power measurements (V, A, VA, W, pf) 			YES	YES
ENVIRONMENTAL MANAGMENT <ul style="list-style-type: none"> Optional Plug and Play environmental sensors including temperature, humidity and water leak 	YES	YES	YES	YES

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PHYSICAL SECURITY MANAGEMENT <ul style="list-style-type: none">▪ Rack access monitoring with door contact switch▪ Customizable alarm thresholds and notifications				
	YES	YES	YES	YES
NETWORK MANAGEMENT AND LOCAL DISPLAY INTERFACE <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
BRANCH CIRCUIT LOAD MONITORING	YES	YES	YES	YES
CIRCUIT BREAKER STATUS		YES	YES	YES

6 ISSUES AND TASKS ADDRESSED

<i>Issue ID</i>	<i>Description</i>
ENADV-27	Ehandle : Standalone Configuration
ENADV-30	Static Analysis Fix 1
ENADV-42	SEVEN SEGMENT DISPLAY ALARM CONSISTENCY
ENADV-36	GUI: Security level in SNMPv3/Trapv3 shows 'AuthNoPriv' option twice
ENADV-39	WEBUI:-Power Threshold Value set for Primary PDU is not reflecting in WEBUI
ENADV-38	SSH:-Outlets are not turning off(delay off) through SSH
ENADV-37	EN1342:PDU Power Threshold (W) page cannot show correct settings
EOB-1451	HID status in OLED and SSH is always wrong
EOB-1684	Cli command dev outlet pduID [status/outletindex] [on/off] cannot power off the outlets
ENADV-43	SKU creation: EN2403
ENADV-34	SKU addition: EN1919
EOB-1778	New Users created cannot be logged in to SSH after Conf Upload / Firmware Upload If 16 users added ssh clearing all users
EOB-1779	WEBUI:64PDU: Threshold page will be blank when active power threshold values filled for all 64 PDU
ENADV-38	SSH/CLI:- Outlets are not turning OFF through SSH/CLI

7 FEATURE UPDATES FROM 1.0.6.1 BUILD TO 1.0.7.7

- 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