

# CISGLOBAL

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**ADVANTAGE SERIES**  
**FIRMWARE RELEASE NOTES**

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Version 1.0.5.8

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## **1 GENERAL**

### **1.1 SCOPE**

This document is the Release Notes for Advantage Series Firmware Version 1.0.5.8

### **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

<i>Image File</i>	<i>MD5</i>
<i>zImage</i>	b1672b232eed018be34db1984a880dc7
<i>u-boot.bin</i>	e04f4b42b5dd51978d9d66138273e97e
<i>rootfs.ubi</i>	98e3a05d3e140235def4eebccc000011
<i>at91bootstrap.bin</i>	c2126c33fee8518915287b649d3d0e74
<i>at91-sama5d3_xplained.dtb</i>	2f2c0bd4de47ffd117452155b986662a

## 2.2 SOFTWARE VERSION

FIRMWARE VERSION – 1.0.5.8

webui – 1.0.5

## 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 have 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, <b>EN1337</b> , <b>EN1315</b> , <b>EN1806</b> , <b>EN1326</b> , <b>EN1811</b> , EN1815, <b>EN1908</b> , EN1907, <b>EN1339</b>
<i>Outlet Metered (MO)</i>	EN5808, EN5810, <b>EN5402</b> , <b>EN5329</b> , <b>EN5325</b>
<i>Switched (MISO)</i>	EN2316E, EN2804S, EN2808, <b>EN2324</b> , <b>EN2325</b> , EN2810, <b>EN2326</b> , <b>EN2333</b> , <b>EN2329</b> , <b>EN2402</b> , <b>EN2902</b> , <b>EN2804</b> , <b>EN2907</b> , EN2317, <b>EN2812</b>
<i>Metered and Switched per Outlet (MOSO)</i>	EN6324, EN6804, EN6333, EN6808, EN6810, EN6902, <b>EN6325</b> , <b>EN6602</b> , <b>EN6329</b> , <b>EN6402</b> , EN6804S, <b>EN6338</b> , <b>EN6326</b> , EN6337
<i>Inline Energy Meter (IEM)</i>	<b>EZ1732</b> , <b>EZ1632</b> , <b>EZ1616</b> , EZ1430

5 PDU FEATURES ENABLED

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

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

## 6 ISSUES AND TASKS ADDRESSED

<i>Issue ID</i>	<i>Description</i>
<i>EOB-961</i>	EN2812 SKU Addition
<i>EOB-967</i>	SNMP SysDesr Table Needs update
<i>EOB-847</i>	sensor communication loss traps received in between the PDU activity if serial is connected

## 7 FEATURE UPDATES FROM 1.0.4.4 BUILD TO 1.0.5.8

- Firmware upload from 1.0.4.4 to 1.0.5.8 takes around 7 minutes, however subsequent upgrades 1.0.5.1 onwards would be normal around 2 minutes
- Firmware upload from 1.0.5.1/3 to 1.0.5.8 does take normal update time around 2 minutes
- Daisy Chain communication is optimized
- Firmware stability with web page navigation over https is optimized
- Events are categorized under individual icons
- Event logs size increased from 256 KB to 3MB and backup mechanism of event logs introduced, Event logs can hold events up to 10,000 entries
- GUI automatic refresh introduced for Total load percentage
- Network Page optimized for graceful reboot on NTP and DST changes