



BTU RESEARCH™

# UPS SOLIDSWITCH

## Multiport PoE Switch and UPS



UPS SolidSwitch



UPS SolidSwitch Extended  
with 1400 Whrs of Runtime

Budget constraints and space limitations were often reasons end users would forego uninterruptible power to edge devices. BTU's "Uninterruptible Power (over Ethernet) Supply™" changes this entirely. With the all new **UPS SolidSwitch**, integrators and engineers now have the ability to add UPS to their design using a device that takes no more space than a conventional switch, adds no more cost to network installation budgets and is priced comparably to high quality, conventional, outdoor switches. A fresh approach to UPS where "always on power" will soon be the new norm for mission critical devices.

### HIGHLIGHTS

The **SolidSwitch's** compact profile is made possible by the use of a small, PCB-mounted, 500-watt power supply, making way for a compact, yet highly efficient, Lithium Ion power pack. This inclusive power pack has a respectable 350Wh of emergency backup, expandable to a substantial 1400Wh with the "UPS Power Cover".

### ADVANTAGES

- **SolidSwitch** adds a new dimension to network infrastructure by seamlessly introducing an Uninterruptible Power Supply to the network through a POE switch.
- **SolidSwitch** is made possible by BTU's "Uninterruptible Power (over Ethernet) Supply™".
- The compact UPS SolidSwitch includes a respectable 350Wh of emergency backup, expandable to a substantial 1400Whrs with the "UPS Power Cover".
- Utilizing the SolidSwitch Command Post, a user interface (GUI) designed to simplify system administrator programming tasks, over the network programming for a multitude of operations is made easy.
- On-board Battery Management System (BMS) that constantly checks and monitors the health of each battery pack (user configurable).
- Provides investment protection by enabling a unified network for data, voice, and video.
- Provides an overall lower total cost of ownership (TOW), than traditional methods.



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### LAYER 3 SWITCH

- Fully managed layer 3, 4 port 10/100/1000 Mbps fast Ethernet switch with 1 SFP-based Gigabit Ethernet port.
- Auto-negotiation and auto-sensing (MDI/MDI-X)
- SNMP v3 DES/AES/AES192/AES256
- Supports IEEE 802.1d Spanning Tree Protocol (STP).
- Supports IEEE 802.1p Quality of Service (QoS), 4 priority queues with dynamic packet mapping.
- Supports IEEE 802.1q VLAN support for 128 groups and 4096 ID's.
- Supports IEEE 802.1s Multiple Spanning Tree Protocol (MSTP).
- Supports IEEE 802.1w Rapid Spanning Tree Protocol (RSTP).
- Supports IEEE 802.1x allows dynamic, port-based security, providing user authentication.
- Supports IEEE 802.3 10Base-T
- Supports IEEE 802.3u 100Base-TX
- Supports IEEE 802.3ab 1000Base-T
- Supports IEEE 802.3x Flow control/Collision control
- Supports Internet Group Management Protocol (IGMP) v1/v2/v3
- Supports Jumbo Frames up to 9000 bytes
- Supports IPv6 Multicast Listener Discovery (MLD)
- Supports TACACS & Radius AAA protocols
- Port mirroring/monitoring/sniffing
- MIB counters (34 per port)
- Loopback modes
- Link diagnostic capabilities
- Supports Remote Monitoring/Switch Monitoring (RMON/SMON)
- Supports Trivial File Transfer Protocol (TFTP)
- Supports Network Time Protocol (NTP)

<b>Maximum Power Output</b>	150W and 240W Models	
<b>Dimensions</b>	350Wh unit: 283mm x 230mm x 76mm	1400Whrs unit: 283mm x 230mm x 134mm
<b>Weight</b>	4.5Kg and 10.5Kg with UPS Power Cover	
<b>VAC Input</b>	85 to 264 VAC 50 to 60HZ	
<b>POE Out Voltage Range</b>	50 to 57 VDC	
<b>Ports</b>	4 POE Ports and 1 SFP Port	
<b>Connectors</b>	Shielded RJ-45 and Cage SFP	
<b>Data Rates</b>	10/100/1000 Mbps	
<b>POE Output</b>	Max output per port 60W and back compatible to IEEE802.3at/af	
<b>Internal UPS Switching</b>	Glitch Free, undetectable switching from AC power source to internal DC supply	
<b>Internal Battery Cells</b>	LG INR18650F1L, Cylindrical Li-Ion, Nominal Std charge/discharge: 3350mAh	
<b>Internal Battery Pack</b>	1 each 28 cell 7S4P pack with up to 3 added packs in UPS Power Cover	
<b>Internal UPS Emergency Power</b>	350Wh expandable to 1400Wh w/optional "UPS Power Cover"	
<b>Mounting</b>	Wall Mountable or Pole Mountable with optional Pole Mounting Kit	
<b>Enclosure</b>	Dust and Water Intrusion: IEC60529, Level IP68, NEMA 6P	
<b>Operating Temperature</b>	Meets NEMA TS-2 Standards	
<b>Operating Humidity</b>	Meets NEMA TS-2 Standards	
<b>Storage Temperature</b>	Meets NEMA TS-2 Standards	
<b>Storage Humidity</b>	Meets NEMA TS-2 Standards	
<b>Safety &amp; Regulatory Compliance</b>	UL, cUL, CE, RoHS Compliant, WEEE Compliant	
<b>Warranty</b>	UPS Switch: 2 Years	Battery Packs: 1 Year