



BTU RESEARCH™

# UPS SOLIDSWITCH – DUAL FIBER

## Multiport PoE Switch and UPS



The **UPS SolidSwitch-Dual Fiber** is the premier network edge device on the market today! These switches have full Layer 3 capabilities combined with BTU's award winning "Uninterruptible Power (over ethernet) Supply™". With the all new **UPS SolidSwitch-Dual Fiber**, 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 **UPS SolidSwitch-Dual Fiber's** compact profile is made possible by the use of a small, PCB-mounted, 300-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-Dual Fiber** adds a new dimension to network infrastructure by seamlessly introducing an Uninterruptible Power Supply to the network through a POE switch.
- **SolidSwitch-Dual Fiber** is made possible by BTU's "Uninterruptible Power (over Ethernet) Supply™".
- The compact **UPS SolidSwitch-Dual Fiber** includes a respectable 350Wh of emergency backup, expandable to a substantial 1400Whrs with the "UPS Power Cover".
- Utilizing the **SolidSwitch-Dual Fiber** Command Post, a user interface (GUI/CLI) 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 (TCO), then traditional methods.



### LAYER 3 SWITCH

- Fully managed layer 3, 4 port 10/100/1000 Mbps fast Ethernet switch with 2 SFP-based Gigabit Ethernet ports and a USB Console port
- Auto-negotiation and auto-sensing (MDI/MDI-X)
- SNMP V2, 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 802.3u 100Base-TX
- Supports IEEE 802.3ab 1000Base-T
- Supports 802.3bt Type 4
- Supports IEEE 802.2x 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 & Secure File Transfer Protocols
- Supports Network Time Protocol (NTP)
- UL497B Compliant POE Surge Protection on-board
- Supports HTTPS, SSH2, DHCP, LLDP, MQTT

<b>Maximum Power Output</b>	150W and coming soon 240W versions	
<b>Dimensions</b>	350Wh unit: 283mm x 230mm x 112mm	1400Whrs unit: 283mm x 230mm x 171mm
<b>Weight</b>	8Kg and 14Kg with Extended Power Cover	
<b>VAC Input</b>	85 to 264 VAC 50 to 60HZ	
<b>PoE Out Voltage Range</b>	50 to 57 VDC	
<b>Port Configurations Surge Protection</b>	4 PoE + 2 SFP with UL497B Surge protection on each 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 100W and back compatible to HI POE, UPOE, LTPOE, IEEE802.3at/af	
<b>Internal UPS Switching</b>	Glitch Free, undetectable switching from an external AC power source to internal DC supply	
<b>Internal Battery Cells</b>	LG INR 18650 1L, Cylindrical Li-Ion, Nominal Std charge/discharge: 3350mAh	
<b>Internal PowerPak</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>	-34°C to 74°C - NEMA TS-2 Certified	
<b>Operating Humidity</b>	18% to 95% NEMA TS-2 Certified	
<b>Storage Temperature</b>	-40°C to 85°C - NEMA TS-2 Certified	
<b>Storage Humidity</b>	18% to 95% NEMA TS-2 Certified	
<b>Safety &amp; Regulatory Compliance</b>	UL, cUL, CE, RoHS Compliant, WEEE Compliant, UL497B PoE Compliant	