

# BITSTREAM™

power • data • single-point fire interface



Lifetime Warranty



## Overview

The BitStream BTS unmanaged PoE switch supports up to eight PoE network devices. Two SFP fiber ports allow high data speeds over long connections. The BTS500 provides 500 watts total power with up to 90 watts per port (802.3bt compliant) and feature a universal AC input (100-240VAC) for global deployment. Network monitoring for the PoE outputs provides voltage, current, and power measurements, battery and fault status, and allows PoE power cycling remotely for each network port.

Single Point Fire Alarm Interface (SFI) provides fire alarm disconnect to multiple BX50 PoE power supply splitters with a single fire alarm connection at the switch. Integrated 48V SLA battery charger provides economic backup to all connected PoE devices on an AC failure.

BitStream switch is 19" rack mountable and 1U in height.

### BTS Series Key Benefits

<b>Fire Alarm Disconnect</b> - Single Point Fire Interface (with BX50)
<b>Central Battery Backup</b> - Provides backup to all connected devices
<b>Built-In Charger</b> - Supports 48V SLA battery sets
<b>Network Monitored PoE</b> - Port status/reset, battery status, email alerts
<b>100-240VAC Universal AC Input</b> - Works in 208VAC datacenters
<b>High Power 802.3bt Compatible</b> - Up to 90W per port, 500W total
<b>Enhanced Cybersecurity</b> - Provides strong cybersecurity protection

## Family Specifications

### Battery Backup:

- Built-in battery charger for central backup
- Charges 48V Sealed Lead Acid (SLA) battery sets
- Auto switchover to battery with zero transfer time

### Remote Monitoring & Control:

- Email or SNMP alerts on faults
- Remote port disable / reset
- Battery voltage, status and alerts
- 1000 event history log
- Monitor voltage, current, power per output

### Fire Alarm Disconnect (compatible with BX50):

- Single-Point Fire Interface (SFI) reduces & simplifies wiring
- DC voltage: 9 to 28VDC, 3 to 15mA
- Dry contact NO/NC
- Optional Fire Alarm latching

### LED visual indicators:

- Port status (Green - Ethernet, Yellow - PoE)
- Front panel LED current displays

### Agency Approvals:

- UL294
- ROHS Leadfree / CE

## Electrical Specifications

Power Supply Board	BTS500-8R
Input	100-240VAC, 50/60Hz
Total Max Output	500W
Max Output Per Port	90W (802.3bt)
Number of Ports	8, managed PoE
Network Speed	10/100/1000
Fire Alarm Disconnect**	Yes
Battery Backup	Yes
Battery Type	Sealed Lead Acid (SLA)
System BTU/Hr	220
Full Load Efficiency	88%
Operating Temperature	0-49C
Dimensions	1.7H x 19W x 15.5D (1U)
Weight	

\*\* Note: BTS Single Point Fire Interface function pairs with BX50 splitter

## Ordering

Model No*	Description	Enclosure Size
BTS500-8R	8 Port, 500W PoE Switch	1.7H x 19W x 15.5D

# BTS Series PoE Switch

500W / 8 Port / FAI

## BTS SERIES FEATURES

**Built-in 48V SLA Battery Charger** Integrated battery charger provides dedicated backup for all connected PoE devices, reducing load on system UPS. Battery monitoring provides battery voltage and connection status remotely.

**500W Total Output** High total power output (maximum 90W per port - 802.3bt compatible).

**Port Status Indication** Dual color port LEDs indicate normal or fault conditions per zone. Green/Normal or Yellow/Fault.

**Universal AC Input** Accepts 100 to 240VAC input for datacenter operation.

**Network Monitored PoE** View PoE output port voltage, current, power, and status locally or remotely. Disable or perform a timed reset of any or all ports.

**Strong Cybersecurity Protection** Configurable port settings, certificate selection, complex password settings, and other cybersecurity settings provide strong protection against cyber attack.

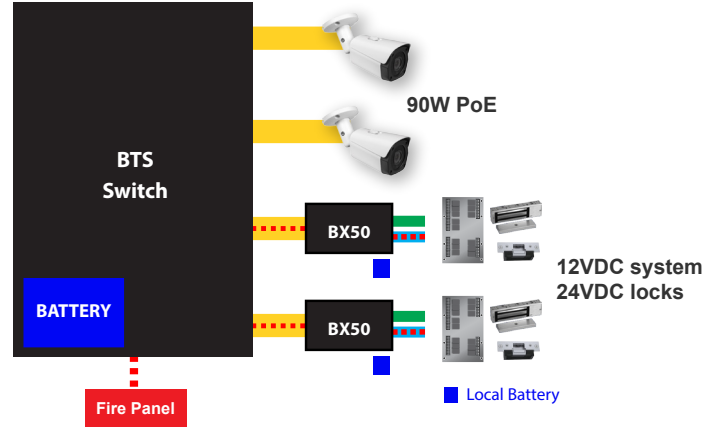
**User Control** Multiple user access levels with user activity log to track configuration changes and actions by user.

**MSM Enterprise Compatible** Monitor status of all LSP network connected devices and perform batch firmware updates through MSM Enterprise monitoring software.

## BITSTREAM - SINGLE-POINT FIRE INTERFACE

**SFI** When paired with a BX50 PoE splitter, the BTS can drop lock power on a fire alarm condition from a single fire alarm disconnect at the BTS. This eliminates the need to pull wiring for an FAI connection to each door, saving cost and simplifying installation.

### BX50 Proprietary Single-point Fire Interface™



## BTS - MANAGED DASHBOARD

The screenshot shows the PowerCom POE MIDSPAN MANAGER dashboard. The interface includes a navigation menu (Home, Configure, RS485, VLAN, Tools, admin Logout) and a status bar (Site ID: BT500-8-229, Date: Thu Dec 31 2020, Time: 10:06:31, Total Power: 0.00W). Below the status bar are buttons for port management (Enable/Disable Selected/All Ports, Reset Selected/All Ports, View Data, Save Settings, Programming). The main table displays port configuration and status for 8 ports, each with Channel A and Channel B. All ports are currently disabled.

Port	Ext.Control	Priority	Channel	Device	Enabled	FAI State	Voltage	Current	Power	Class	Status
1	1	0	Channel A		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
			Channel B		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
2	2	0	Channel A		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
			Channel B		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
3	3	0	Channel A		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
			Channel B		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
4	4	0	Channel A		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
			Channel B		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
5	5	0	Channel A		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
			Channel B		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
6	6	0	Channel A		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
			Channel B		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
7	7	0	Channel A		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
			Channel B		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
8	8	0	Channel A		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled
			Channel B		No	N/A	0.00V	0.00A	0.00W	N/A	Disabled

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## BITSTREAM FAMILY



**BX50** PoE Extractor Splitter  
BTS500 required for use  
50W at 12 or 24VDC  
BT & BTS Single Point Fire Interface mode compatible

**BX75** PoE Extractor Splitter  
Universal compatibility with 802.3bt endspan switches  
75W at 12 or 24VDC  
Local fire alarm disconnect for UL294 compliance

**BT500** PoE Midspan Injector  
8 or 16 PoE compliant devices  
500W total power, 90W per port  
Local fire alarm disconnect for UL294 compliance

See BitStream Midspan and BX Series datasheets for more information.

### IMPORTANT

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