The **UL294 listed** BiTSTREAM PoE family allows an installer to power an access control system exclusively through PoE power, eliminating the need for field wiring and AC drops. BiTSTREAM's unique UL Listed Single-point Fire interface (SFI) feature allows egress on fire alarms through a single centralized fire alarm connection.

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[/tab][tab title="Products"]

PoE Switches and Midspan Injectors

Model #	Description	Total Power	Outputs
BT500-8P	8 Port Unmanaged PoE Switch, rack mount, network monitored	500W	Eight (8), PoE 90W, 802.3BT
BT500-8	8 Port Midspan injector, rack mount	500W	Eight (8), PoE 90W, 802.3BT
BT500-16	16 Port Midspan injector, rack mount	500W	Sixteen (16), PoE 90W, 802.3BT

PoE Access Power Systems

Model #	Output Power	Outputs	Enclosure
BX50-E5	50W Dual Voltage	One per voltage	E5 (8.5 x 11 x 3)
BX50-E1	50W Dual Voltage	One per voltage	E1 (14 x 12 x 4.5)

BX50-D8E1	50W Dual Voltage	8 Aux Outputs	E1 (14 x 12 x 4.5)
BX75-C4E1	75W Dual Voltage	4 Lock Outputs	E1 (14 x 12 x 4.5)
BX75-C8E1	75W Dual Voltage	8 Lock Outputs	E1 (14 x 12 x 4.5)
BX75-C8D8E1	75W Dual Voltage	8 Lock & 8 Aux Outputs	E1 (14 x 12 x 4.5)

BX50-Boxed	50W Dual Voltage	One per voltage	Board Only
BX75-Boxed	75W Dual Voltage	One per voltage	Board Only

BiTSTREAM Features

- BX50 Single-point Fire Interface (SFI) - When using the BT500 in combination with one or more BX50s, a central fire alarm connection at the BT500 can be used to provide fire alarm disconnect over the ethernet connection, eliminating the need for a fire alarm connection at each door.
- BX75 Local Fire alarm disconnect - the BX75 uses a traditional fire alarm connection at each BX75. The BX75 is not compaitble with FoE.
- BT500 and BTS500 Central Battery Charging - The BT and BTS have an on-board battery charger for centralized SLA battery backup without burdening the rack's UPS system
- BX50 & BX75 Local Battery Charging - the BX power supplies provide a local battery charger compatible with traditional SLA or newer Lithium Iron Phosphate (LFP) batteries.
- Network Managed - The BT500 and BTS500 are fully network managed, allowing monitoring of voltage, current, and power per zone, battery monitoring, and individual or batch zone shutdown for resetting frozen devices. Compatible with MSM Enterprise.

[/tab] [tab title="Overview"]

BiTSTREAM BT500 **Midspan Injectors** provide power and pass data to PoE compliant devices, such as IP cameras, door locks, IR illuminators and other access control edge devices. Features include: 8 ports at 90W/port, remote management via LAN/WAN, plug and play operation, remote PoE shutdown per port or all ports simultaneously, and 10/100/1000BaseT Gigabit support. A built-in fire alarm connection provides Single-point Fire Interface (SFI) control for BX50 PoE Access Control power Supplies.
BiTSTREAM midspans also include a 48V battery charger for cost effective back-up power vs traditional backup methods.
BiTSTREAM midspans are housed in a 1U rack mountable metal enclosure and have a 100 to 240V universal AC input.

BiTSTREAM BTS500 **PoE Switches** provide power and network switching capabilities to PoE

devices such as IP cameras, door locks, IR illuminators and other access control edge devices. Features include: 8 ports at 90W/port, remote management via LAN/WAN, plug and play operation, remote PoE shutdown per port or all ports simultaneously, and 10/100/1000BaseT Gigabit support. A built-in fire alarm connection provides Single-point Fire Interface (SFI) control for BX50 PoE Access Control power Supplies.

BiTSTREAM switches also include a 48V battery charger for cost effective back-up power vs traditional backup methods.

BiTSTREAM switches are housed in a 1U rack mountable metal enclosure and have a 100 to 240V universal AC input.

BX Series power supplies provide 12 and 24VDC system and lock power to PoE devices such as access panels, locking devices, readers, REX devices, cameras, and IR illuminators from a PoE source.

BX50 power supplies work with the BT500's Single-point Fire Interface (SFI) mode to allow fire alarm disconnect from one central fire alarm connection at the BT500 midspan, eliminating the need for a fire alarm connection at each locking device.

BX Series power supplies provide local battery backup using low-cost SLA batteries, or newer-technology Lithium Iron Phosphate (LFP) batteries.

BT500 and BTS500 Product highlights

- Remote management
- 90W per port, IEEE 802.3bt – all ports
- Single-point Fire Interface control for BX50
- 10/100/1000Base T Gigabit support
- Email alert for trouble conditions
- Remote on/off port control
- 48V lead acid battery charger

Reliability and Safety

- RoHS Compliant
- 10 year warranty

Agency Listings

- BX Series: UL294, UL2610, ULC S318
- BT Series: UL294, CAN/ULC 60839-11-1
- CE
- FCC Part 15, subpart B

- Meets IEC61000-4-5 surge immunity for Class 4, 4kV

[Product Warranty](#)

[/tab] [tab title="Technical Documents"]

Model #	Datasheet	Install Manual	CAD Files

Model #			Datasheet	Install Manual	CAD Files
BTS500-8R	DS	IM	CAD	AG	
BT500-8R	DS	IM	CAD	AG	
BT500-16R	DS	IM	CAD	AG	
BX50	DS	IM	CAD	AG	
BX75	DS	IM	CAD	AG	

[/tab] [tab title="Tools & Software"]

Tools & Software

Excel spreadsheets designed by the LifeSafety Power technical department to aid the installer in required calculations and example configurations of LifeSafety Power equipment when used in commonly found system applications.

Calculators / Software
[PowerCom-USB Download](#)
[Ohms Law Calculator](#)
[Battery Size Calculator](#)
[Battery Capacity Calculator](#)
[Wire Size Calculator](#)
[Voltage Drop Calculator](#)
[FlexCalculator Suite](#)

Application Notes

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