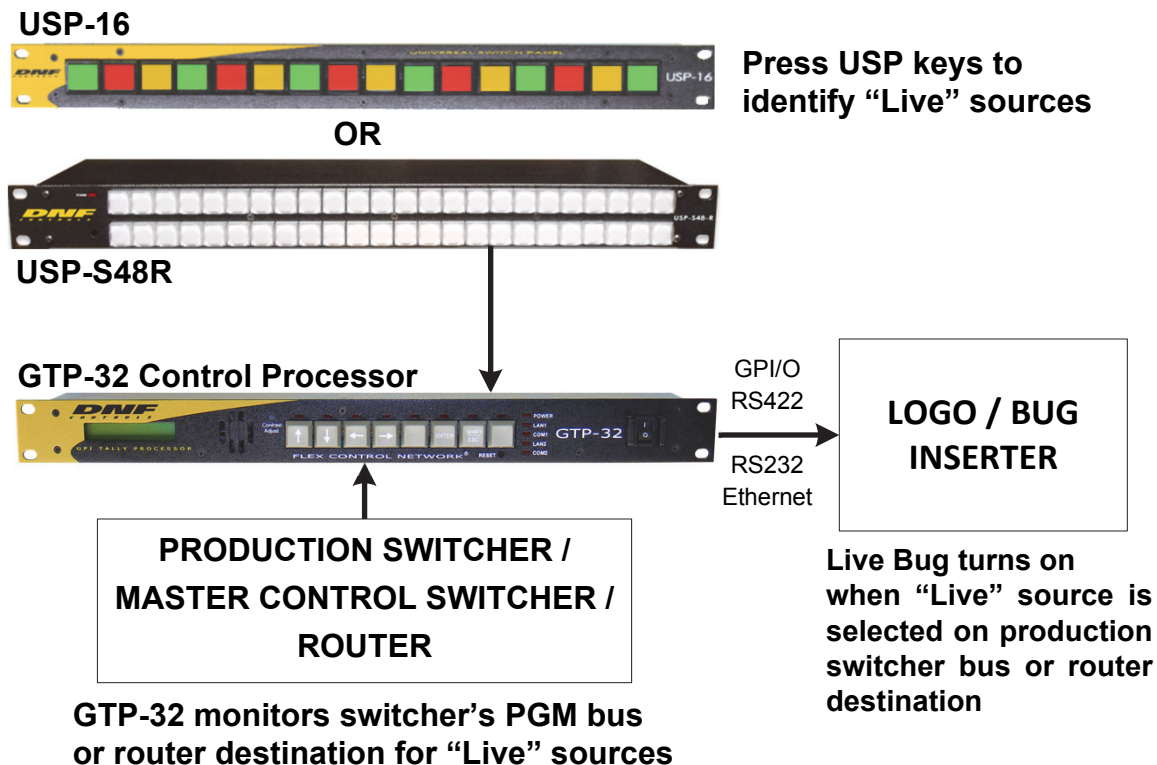


# “Live” Bug Control System For On-Air Branding

- Automatically Show / Hide  
Live Bug, Logo, & Branding
- Manually Override with button push, PBUS  
Trigger, GPI, etc.
- Assign Live Bug to specific sources  
Quickly & Easily change during show
- Supports all major production switchers and  
Logo/Bug Inserters

## Typical System Configuration



# “Live” Bug Control System

USP-16



OR



USP-S48R

GTP-32 Control Processor



The GTP-32 monitors the switcher's PGM bus or specified router destination for “Live” sources.

When a “Live” source is detected on the PGM bus or specified router destination

**AND**

Automated control of the Live Bug is enabled, the GTP-32 commands the Logo/Bug Inserter to display the Live Bug.

**PRODUCTION SWITCHER /  
MASTER CONTROL SWITCHER /  
ROUTER**

Each USP key is assigned to an Source Input on the production switcher, master control switcher, or router. For example, USP Key #1 is assigned to switcher Input #1. USP Key #2 is assigned to Input #2.

Press Key #1 to identify Input #1 as a live source. Key #1's legend and color change to identify Input #1 as a live source. Press Key #1 again when Input #1 is not a live source. Key #1's legend and color change to show that switcher Input #1 is not a live source.

Press the USP ENABLE key to enable/disable automatic control of the live bug. Press the ON/OFF key to manually toggle the live bug on or off. Press one of the Bug Select keys to select a specific live bug.

GPI/O  
RS422  
RS232  
Ethernet

**LOGO / BUG  
INSERTER**

The Logo / Bug Inserter is controlled by the GTP-32 to turn on and off the Live Bug, as well as select one of many Live Bug graphics.

## System Configuration Considerations:

- For systems with 16 or less live sources, use the USP-16
- For systems with more than 16 live sources, use multiple USP-16s or one USP-S48R
- One USP key is used to enable / disable automated live bug control
- One USP key can be used to manually toggle the live bug on/off
- Additional USP keys can be used to select the specific live bug graphic used by the Live Bug Control System
- Typically, two GTP-32 control channels are used
  - 1- Production / Master Control Switcher or Router interface (serial or Ethernet)
  - 1- Logo / Bug Inserter (serial or Ethernet)
- Primary / Backup system configuration available

**Contact DNF Controls for more information or to request a demonstration:**

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**DNF**  
CONTROLS