



National Park Service Photo

# UTAH-100/UDS Universal Distribution System



## UTAH -100/UDS



The UTAH-100/UDS is a refreshing approach to signal distribution. The UTAH-100/UDS combines the flexibility of multi-rate digital switching with the economy of a simple distribution amplifier. This product is for use in signal distribution application in any type of facility.

This modular system is based on I/O modules with 16 ports that are interconnected by a crosspoint fabric which allows any input signal to feed as many output ports as needed. The economical design of the modules make it possible for a 4RU frame to feed 144 output ports at a fraction of the cost and power consumption typically found on other DA packages. In addition to this, the UTAH-100/UDS also enables you to assign signals to each output individually.

This amazing unit's flexibility doesn't stop there either. Through the use of our award-winning FLEX-I/O modular system you select the signal format of each I/O port from a complete range of options. These options include: analog video, digital over fiber or coax at any rate up to 3Gbps, DVI, HDMI and even IP- encapsulated DVB-ASI streams.

### Additional Features

- Modular Distribution
- SD/HD compatibility -including 3Gbps formats and DVB/ASI
- Web Browser configuration and control
- Mix Fiber and coax connections in 3 available frame sizes
- FLEX-I/O option provides analog, DVI/HDMI,IP Inputs and or Outputs
- Web control panel comes standard
- Optional hardware panels are available

## UTAH-100/UDS



The UTAH-100/UDS is available in three different frame sizes:

- 1RU frame 32x32 matrix
- 2RU frame 64x64 matrix
- 3RU frame 144x144 matrix

Each frame has a dual DC input connection and a Reference Video input for vertical interval switching. The frame itself also holds a controller module with Ethernet and Serial ports for system connections. The controller module can optionally be replaced with an MX-Bus module allowing the UDS frame to become part of an SC-4 system if needed.

The standard multi-rate video I/O modules are fitted with HD-BNC connectors for maximum density and the highest possible performance at all data rates. These 16-port modules can be swapped for modules fitted with 8 dual-port SFP cages, providing a way to use any of the wide range of FLEX I/O interface modules for Fiber, HDMI/DVI, or IP-video signals.



The UTAH-100/UDS is controlled and monitored by a built-in web interface. External hardware control panels and virtual control via Ethernet can extend the functionality of the system to local and remote users as necessary. In addition to system configuration, monitoring and control, the web interface provides a way to group combinations of output ports into an output block. Once that block is created any input signal can be routed through with a single selection. This feature can be extremely useful in dubbing applications or where reference signals need to be switched to a complete studio system or edit bay.

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The UTAH-100/UDS web interface includes applets for controlling the router from any web browser. This control can be from the full-function user interface or from a dedicated applet that provides an on-screen representation of the optional hardware control panel.



There are two hardware control panels available for the UDS family. The UDS-CP2 (pictured above) and the UTAH-100/UDS-XY (pictured below). The UDS-CP2 provides low cost solution featuring 32 programmable buttons capable of being assigned to different sources or destinations. Multiple pages extend the panel's capabilities.

The UTAH-100/UDS-XY Control Panel brings an immensely flexible means of control to the UDS family. Designed to provide full-matrix control for larger routers up to 144x144, the UDS-XY features a crisp high-resolution display with easy to use scrolling menu-based operation for quick selection of sources and destinations.



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The Utah Router Control Apps for the iPad offer yet another control solution for our routing systems. The App enables you to connect directly to the system controller and automatically download router configuration, labels, and status information. This ensures quick operation wherever WIFI connection to the controller is available.

## Frame Specifications

Width:	19" Rack Mount
Depth:	3.4"
Sizes:	1RU- 32x32 Power: <30W 2RU- 64x64 Power: <50W 3RU- 144x144 Power:<100W
Power Supply:	External *Redundant supply optional
Control Connections:	RJ-45 Ethernet RJ-45 Serial Vertical Interval Reference

## I/O Specification

### Multi-rate Digital Input Card

Number of Ports per Card:	16
Formats Supported:	3Mbps-3Gbps
Input Equalizations:	>100m of Belden 1694 or equivalent cabling
Reclocking:	All SDI rates up to 3Gbps
Connector Type:	HD-BNC

### Multi-rate Digital Output Card

Number of Ports per Card:	16
Formats Supported:	3Mbps-3Gbps
Connector Type:	HD-BNC

### FLEX-I/O Option

Number of ports per card:	16 (8 SFP cages)
Dual-Channel SFPs support:	SDI up to 3Gbps (coax) SDI up to 3Gbps (Fiber) PAL/NTSC analog composite DVI/HDMI(single port SFP) IP-encapsulated DVB-ASI Signals

