

UTAH-100

COMPACT ROUTING SWITCHERS and DISTRIBUTION AMPLIFIERS



The UTAH-100 family of compact routing switchers and signal distribution amplifiers offer a unique combination of features and performance at an affordable price that makes them very attractive for industrial and professional users as well as for broadcast applications. The family consists of both fixed-frame and modular products for all signal types in 1RU and 2RU packages, offering unmatched flexibility in a wide range of applications.

THE UTAH-100 FAMILY

- UTAH-100/X
 - 8x8, 16x16, and 16x1 Routers in 1 RU Frame
 - 32x32 Routers in 2 RU Frame
 - Multi-Channel DA Packages
- UTAH-100/1
 - Modular system up to 16x16 in 1RU Frame
 - DA Modules with Three Outputs per Module
- UTAH-100/2
 - Modular system up to 32x32 in 2RU Frame
 - DA Modules with Seven Outputs per Module
- UTAH-100/3
 - Modular DA family with a variety of module options
 - 2RU frame holds up to 10 modules

UTAH-100/X Series

The UTAH-100/X Series offers a variety of switchers and distribution amplifier packages in a compact 1RU fixed-frame configuration. Using a unique one-piece frame design that is only 2" deep, the X-series units can easily be mounted in consoles and mobile racks where space is limited.



All X-Series switchers are supplied with a built-in Ethernet control module, allowing the switcher to be operated via a browser interface. Built-in control panels and remote control panels are offered as options. Other options include redundant power and control interface adapters to external Utah Scientific control systems.



The X-series family includes the following products:

ROUTING SWITCHERS

3G Multi-Rate Routers

UTAH-100/X8HD	8X8 HD Video Router
UTAH-100/X16HD	16X16 HD Video Router
UTAH-100/X1601HD	16X1 HD Video Router
UTAH-100/X1601HDL	16X1 HD Router w/ Looping Inputs
UTAH-100/X32HD	32x32 HD Video Router

SD / ASI Routers

UTAH-100/X8SD	8X8 SD / ASI Video Router
UTAH-100/X16SD	16X16 SD / ASI Video Router
UTAH-100/X1601SD	16X1 SD/ASI Video Router
UTAH-100/X32SD	32x32 SD/ASI Video Router

Wideband Analog Video Routers -- 350 MHz

UTAH-100/X16WB	16X16 Wideband Analog Video Router
UTAH-100/X32WB	32x32 Wideband Analog Video Router
UTAH-100/X3204WB	32x4 Wideband Analog Video Router

Analog Video Routers -- 100 MHz

UTAH-100/X8V	8X8 Analog Video Router
UTAH-100/X16V	16X16 Analog Video Router
UTAH-100/X1601V	16X1 Analog Video Router
UTAH-100/X1601VL	16X1 Analog Router w/ Looping Inputs
UTAH-100/X3204V	32x4 Analog Video Router

Stereo Analog Audio Routers

UTAH-100/X8AA	8X8 Stereo Analog Audio Router
UTAH-100/X16AA	16X16 Stereo Analog Audio Router
UTAH-100/X32AA	32x32 Stereo Analog Audio Router

Digital Audio Routers

UTAH-100/X8DA	8X8 Digital Audio Router
UTAH-100/X16DA	16X16 Digital Audio Router

Combined Analog Video and Stereo Audio Routers

UTAH-100/X16VAA	16X16 Analog Video+Stereo Audio Router
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DISTRIBUTION AMPLIFIERS

3G Multi-Rate Distribution Amplifiers

UTAH-100/XHDA	User Configurable 3G Multi-rate DA with four blocks, each configurable as: 1X4 HD/SDI Video DA -- 2 Channels 1X8 HD/SDI Video DA -- 1 Channel
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Wideband Analog Distribution Amplifiers -- 350MHz

UTAH-100/XVDA8	1X4 Wideband Analog Video DA -- 8 Channels
UTAH-100/XVDA4	1X8 Wideband Analog Video DA -- 4 Channels

Analog Audio Distribution Amplifiers

UTAH-100/XADA84	1X4 Analog Audio DA -- 8 Channels (4 Stereo)
UTAH-100/XADA48	1X8 Analog Audio DA -- 4 Channels (2 Stereo)

UTAH-100 Specialty Switchers

Emergency Protection Switching

A special module for the UTAH-100/1 frame provides automatic 2x1 protection switching for SDI and ASI signals. Thanks to the 1RU frame's flexible configuration options, any combination of up to 8 Protection Switch and DA modules can be installed in a single rack frame for protection and distribution of critical signals in your facility.

Telecom

In addition to the usual audio and video signal formats, the UTAH-100 family also offers products for handling Telecom-related signals from E-1 up to 155 Mbps, including DS-3 (45Mbps) and E-3 (54Mbps) signal formats.



UTAH-100/1 Series

The UTAH-100/1 Series products are housed in a 1RU module frame that can hold up to a 16x16 router. I/O modules have four ports each, and the crosspoint module is available in 8x8 and 16x16 configurations.

The 8x8 routers have extra I/O slots available for the installation of up to four three-output DA modules for additional space-saving flexibility.

The UTAH-100/1 series switchers can be controlled by optional built-in control panels and/or remote control panels. Redundant power and control interface adapters to external Utah Scientific control systems are offered as options.

Modular Video Routers (1RU)

UTAH-100/1V8	8x8 Analog Video Router
UTAH-100/1V16	16X16 Analog Video Router
UTAH-100/1ASI8	8X8 ASI Router
UTAH-100/1ASI16	16X16 ASI Router
UTAH-100/1D8	8X8 SDI/ASI Router
UTAH-100/1D16	16X16 SDI/ASI Router

Line Switchers for Time Code, RS422, and Unbalanced AES (1RU)

UTAH-100/8LS	Dual 8X8 Line Switcher
UTAH-100/16LS	Dual 16X16 Line Switcher
UTAH-100/3216LS	32X16 Line Switcher

Modular Analog Audio and AES Routers (1RU)

UTAH-100/1AA8	8X8 Balanced Stereo Analog Audio Router
UTAH-100/1A16	16X16 Balanced Mono Analog Audio Router
UTAH-100/1AA16	16X16 Balanced Stereo Analog Audio Router
UTAH-100/1AA32	32X16 Balanced Mono Router
UTAH-100/1DA16	16x16 AES Digital Audio (Transformer Balanced)

Analog Video Monitoring Switch

UTAH-100/1V32X2	32X2 Analog Monitoring Switch
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Modular Distribution Amplifiers (1RU)

UTAH-100/1RFPS	Mounting Frame 8 Slot with Power Supply
UTAH-100/1VDA	1X3 Analog Video / E-3 DA
UTAH-100/1SDA	1X3 SDI/ASI DA
UTAH-100/1SDAR	1X3 Reclockina SDI/ASI DA



UTAH-100/2 Series

The UTAH-100/2 Series products are housed in a 2RU module frame that can hold up to a 32x32 router. I/O modules have eight ports each, and the crosspoint module is available in 16x16, 32x16, and 32x32 configurations.

The 16x16 routers have extra I/O slots available for the installation of up to four seven-output DA modules for additional space-saving flexibility.

The UTAH-100/2 series switchers can be controlled by optional built-in control panels and/or remote control panels. Redundant power and control interface adapters to external Utah Scientific control systems are offered as options.

Modular Video Routers (2RU)

UTAH-100/2V16	16X16 Analog Video Router
UTAH-100/2V3216	32X16 Analog Video Router
UTAH-100/2V32	32X32 Analog Video Router
UTAH-100/2ASI16	16X16 ASI Router
UTAH-100/2ASI3216	32X16 ASI Router
UTAH-100/2ASI32	32X32 ASI Router
UTAH-100/2D16	16X16 SDI/ASI Router
UTAH-100/2D3216	32X16 SDI/ASI Router
UTAH-100/2D32	32X32 SDI/ASI Router

Port Router (2RU)

UTAH-100/32P	32 Port RS 232/422 Router
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Modular Modular Video Distribution Amplifiers (2RU)

UTAH-100/2RFPS	Rack Frame, 8 Slot, with Power Supply
UTAH-100/2VDA	1X7 Analog Video / E-3 DA
UTAH-100/2SDA	1X7 SDI/ASI DA
UTAH-100/2SDAR	1X7 Reclocking SDI/ASI DA

Remote Control Options

In addition to the optional built-in and external control panels, the UTAH-100/X Series switchers have a built-in Ethernet control port that provides browser-based control of switcher operations. This port also supports communication with an external Utah Scientific switcher controller, allowing these switchers to be controlled as part of an integrated control system.

The UTAH-100/1 series switchers also offer the option of built-in and external control panels. In addition, an external Serial/LAN Adapter Module, model SLAM-232, can be used to provide web-based control of these switchers and to tie them into an existing Utah Scientific router control system.

The SLAM-232 module can also be used to provide SNMP communications when the UTAH-100 routers are to be integrated into a network management system.



FOR FURTHER INFORMATION
 on the individual products in the UTAH-100 family, please refer to the detailed data sheets that are available on our Web Site:
www.utahscientific.com

UTAH-100/3 Modular Distribution Amplifiers

The UTAH-100/3 family of Distribution Amplifiers provide an economical but highly reliable means of creating multiple copies of both analog and digital video signals.



The 2 RU frame holds dual power supplies for maximum reliability and up to ten DA modules. Each module is supplied with a rear panel assembly to match the module's configuration. A 1RU frame which holds up to five modules is also available. Examples of the available module configurations include:

Analog Video	Single	1x8 with Looping Input, Clamping and Equalization Options
	Dual	1x4 with Clamping and Equalization Options
SD Digital Video	Single	1x8 with Equalization and Reclocking
	Dual	1x4 with Equalization and Reclocking
	Triple	1x2 with Equalization and Reclocking
HD/3G Digital Video	Single	1x8 with Equalization and Reclocking
	Dual	1x4 with Equalization and Reclocking
	Triple	1x2 with Equalization and Reclocking
Analog Audio	Single	1x8 with Balanced I/O
	Dual	1x4 with Balanced I/O
Digital Audio	Single	1x8 with Balanced or Unbalanced I/O
	Dual	1x4 with Balanced or Unbalanced I/O

