ULtrix

The Ultimate Software Defined Routing Platform.
What happens when you combine a passion for technology, decades of domain knowledge, and a focus on creating a high-quality solution that solves your problems? In a word, you get Ultrix. Ross Video, the company that has brought countless cutting edge innovations to production switcher solutions, is proud to present a similar kind of generational leap to the development of a video routing switcher platform. The wildly popular, multi award winning Ultrix is a powerful, state-of-the-art software defined routing platform that lets you realize significant cost, space and power efficiency with unprecedented flexibility and agility. As well Ultrix provides you with the peace of mind that comes with an extremely reliable system designed for future requirements.
AGILE
• World’s First Software Defined Hardware Platform
• Incrementally add UHD with software licenses only!
• License MultiViewer outputs as need arises (no special HW)
• Advanced audio processing and clean/quiet audio/video switching as standard
• Assign frame syncs to one or multiple inputs with software licensing and no additional hardware
• Easily expand base I/O as required due to the modular architecture that the frame provides

UNRIVALED CONNECTIVITY
• Route SD, HD, 3G, 12G and IP video signals in the same system
• Use a combination of single link and multi-link interfaces for UHD with integrated gear-box capability
• Choose from embedded or discrete audio to fit a range of requirements
• Connect with various video interfaces such as HDMI, SDI, IP, and Fiber to maximize flexibility

EFFICIENT
• Smallest footprint in the market with high density, compact frames
• Leverage latest technology advancements in signal integrity & FPGA processing for exceptional performance and function consolidation
• Enjoy easy deployment and maintenance with an integrated control system that provides configuration, soft panels, discovery, and interoperability
• Software defined puts functionality on demand. No specialized hardware, crossovers, or cabling and no throwaway or replacement boards. Plus no lost time or occupied I/O slots.

Ultrix is so much more than a traditional routing platform. It’s infrastructure in a box. Ranging in sizes from 16x16 to 160x160, the compact design of Ultrix provides big performance in little space. Its small footprint makes Ultrix a natural fit for space conscious applications like Mobile Production. Its integrated Ultricore control system provides users a great way to configure, monitor, and control Ultrix via both Software and Hardware panels that scale based on budget and size. And software defined means users can enable the functionality they need - MultiViewer, frame syncs, clean/quiet switches, etc. - when they need it without losing critical time occupying scarce I/O slots.

Like all good stories, there is so much more to Ultrix than simple video routing - Ultra-Powerful. Ultra-Fast. Ultra-Cool.
ULTRA POWERFUL
Ultrix is a compact, but incredibly powerful processing platform capable of fast and accurate video routing, clean/quiet switching of audio along with video signals from SD to 12G, with advanced audio routing and processing as standard functions. All of this processing power is available whether you are working in baseband, all IP, or hybrid environments ensuring Ultrix is ready for the rapidly evolving topologies that you may need to implement. The unique design permits users to software license additional capabilities such as adding integrated MultiViewers, frame synchronizers, and 12G I/O. No special hardware is required for any of these capabilities. Robust hardware, along with the implementation of Ross Video’s Software Defined Production strategy means a platform that will grow with your needs.
ULTRISPEED
12G Performance Available Through Every Signal Path
Ultru provides maximum performance and quality with standard configurations supporting data rates up to 3G. Users can purchase Ultrispeed software license that enable 12G performance throughout every signal path within the router. 12G is the standard for single link UHD (4K) SDI routing.

The patented technology that produced the Ultrispeed license enables Gearbox functionality which converts to/from quad link 3G 2 Sample Interleave (2SI) 12G signals for integration with some types of non-12G 4K equipment.

Software License That Enables High Speed Data Rates Within The Frame
- Supports the Next Generation of SDI Signals!
- From SD to Single-Link 12G
- 3G standard & up to 12G with Ultrispeed SW upgrade
- Improved pathological performance using advanced processing and signal integrity capabilities
- Gearbox capability
- 1 Terabit switching capacity per RU positions the platform perfectly for the hybrid facilities today and in the future
- Gearbox SW upgrade

Gearbox Features
- Supports both multi-link and single-link SDI
- 12G or Combination of multi-link and single-link
- Enabled with Ultrispeed SW license
- Converts between Quad-Link 3G 2 Sample Interleave (2SI) and 12G SDI
- Patented Ross Video Signal Medic features:
  - Auto inter-channel skew correction
  - Self-healing channel replacement

ULTRISCAPE
Software Defined MultiViewer Integration
Ultrascape is the first software defined MultiViewer. No special output boards, crosspoints, or multichannel connection cables are needed. Simply enable the desired number of outputs to drive the monitors required, and route any input to whatever MultiViewer head is chosen.

KEY FEATURES
- Up to 6 MultiViewer heads can be enabled in 1RU
- Up to 12 MultiViewer heads in a 2RU
- Up to 27 MultiViewer heads in a 3RU chassis

This makes Ultrascape the most compact solution currently available. Because MultiViewer outputs can be assigned to both standard HD BNC or SFP outputs, users have the flexibility to choose the output type they need for each monitor, thus eliminating the hassle of matching traditional MultiViewer outputs to the monitors being driven. Low latency, metering, tally, and UMD support via standard protocols make for easy integration into existing facilities.

- Up to 6 MultiViewer heads in 1RU, 12 MultiViewer heads in 2RU, or 27 MultiViewer heads in 3RU
- Can use standard HD-BNC I/O, SMPTE 2110 or AUX ports
- SFP output design permits users to choose output format (HDMI, SDI, FIBER...)
- Each Ultrascape license enables 1 MultiViewer head
- Fast (<1 frame latency)
- Video input support for signals from SD up to single link 12G in either baseband or SMPTE 2110 formats
- Flexible layout configurations to meet a wide range of applications
- Multiple output formats that are configurable by the user
- 2 System PiPs from an array of choices plus a single use 3rd scaler PiP per layout
- 100 non blocking PiPs per MultiViewer output
- Integrated audio metering with customizable look and feel
- Multiple tally indicators including borders, lamps, and label UMDs
- Tally support TSL 3.1, and 5.0 native
- Simple control and configuration
- Configure / update a single or multiple MultiViewers across many frames quickly using Dashboard
- Tight integration with router database
- Customizable layouts
- Recall layouts from router hardware and software panels, and via third party automation systems
- Multiple modes of operation including direct PiP control and destination follow
- Industry leading image quality with award winning Ross scaling technology
- Multiple output formats that are configurable by the user
- 2 System PiPs from an array of choices plus a single use 3rd scaler PiP per layout
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**ULTRIMIX-MXR**

Software Enabled Virtual Audio Mixer

To enhance the Ultrimix audio smart fabric even more, Ultrix has also introduced the world’s first software-enabled audio mixer in a router platform: Ultrimix-MXR. Ultrimix-MXR is a virtual audio mixer that can be configured up to 128x16. It is partitionable into smaller mixers so you can have multiple instances within the frame. It is also fully routable which means not only does it have access to every input in the system, but its outputs can be sent to any output in the frame, providing tremendous flexibility for audio workflows. Each input has a 4-band parametric equalizer, noise gate, and compressor/limiter. In addition, Ultrimix-MXR has 128 direct outputs for simple flexibility for audio workflows. Each input has a 4-band parametric equalizer, noise gate, but its outputs can be sent to any output in the frame, providing tremendous flexibility for audio workflows. Each input has a 4-band parametric equalizer, noise gate, and compressor/limiter.

**KEY FEATURES**

- Complete non-blocking audio support
- Route and process both embedded and discrete audio.
- Up to 768x768 channels in 1RU
- Up to 1536x1536 channels in 2RU
- Up to 3456x3456 channels in 5RU

**Audio Integration And Processing**

In another industry first, Ultrimix provides advanced audio integration and processing, including the ability to embed and de-embed audio on all of the inputs and outputs of the router, as well as route discrete audio, all standard in every frame. No special hardware, crosspoints, or I/O boards are required, as with other systems. Users have complete flexibility to process, swap, sum, mute, or route any discrete or embedded audio input to any output. This is an enormous amount of audio.

- Up to 768x768 in 1RU
- Up to 1536x1536 in 2RU
- Up to 3456x3456 in 5RU

This means Ultrimix has enough channels for even the most demanding audio operations. Ultrimix is perfect for applications where audio is constantly changing, and it can be added as needed without throwing away any initial investment in the system.

**ULTRICORE**

Full Featured Control System

Great hardware is only as good as the control system running it. Ultrimix is a full featured control system that significantly reduces setup time, simplifies configuration, and enhances the user experience by providing powerful, yet intuitive workflows and interfaces that make operation run smoothly.

Ultriecor is standard on all Ultrimix frames, integrated control is great for small systems as it does not require the use of a central controller. For larger or more sophisticated systems, the Ultriecor BCS central controller is available to provide greater client integration as well as enhanced control and connectivity capabilities.

When interoperability is required, reliable third party integration is assured by the ability to interface with industry standard protocols (GV Native / Probel SW-P-08), optional NV-9000, Ember+ logical/physical routing control and connectivity capabilities. When interoperability is required, reliable third party integration is assured by the ability to interface with industry standard protocols (GV Native / Probel SW-P-08), optional NV-9000, Ember+ logical/physical routing control and connectivity capabilities. When interoperability is required, reliable third party integration is assured by the ability to interface with industry standard protocols (GV Native / Probel SW-P-08), optional NV-9000, Ember+ logical/physical routing control and connectivity capabilities. When interoperability is required, reliable third party integration is assured by the ability to interface with industry standard protocols (GV Native / Probel SW-P-08), optional NV-9000, Ember+ logical/physical routing control and connectivity capabilities.

**KEY FEATURES**

- Router and MultiViewer database and Canvas
- 2 Ethernet ports, 2 Serial
- Ease of operation: Transitions such as Cut, Fader/Cut, FaderFade, V-Fade, and Quiet on a per channel basis
- Full audio processing and transitions: 4 Band Parametric EQ per input, Noise Gate per input, Compression/Limiter per input, Dashboard control, and custom panels for both the 2RU and 4RU Ultrimix hardware control panels.

- 2RU and 4RU Ultritouch hardware control panels.
- DashBoard user interface as well as wizard-based application-specific panels for both audio processing as part of its standard feature set. It is controllable via a beautiful and compressor/limiter. In addition, Ultrimix-MXR has 128 direct outputs for simple flexibility for audio workflows. Each input has a 4-band parametric equalizer, noise gate, but its outputs can be sent to any output in the frame, providing tremendous flexibility for audio workflows. Each input has a 4-band parametric equalizer, noise gate, and compressor/limiter.

- 128 Direct outs for simple flexibility for audio workflows. Each input has a 4-band parametric equalizer, noise gate, but its outputs can be sent to any output in the frame, providing tremendous flexibility for audio workflows. Each input has a 4-band parametric equalizer, noise gate, and compressor/limiter.

- License in 32x16 blocks. Multiple licenses can be purchased to build a maximum size of 128x64.
ULTRICLEAN

Clean / Quiet Switching

Ultriclean is the world’s first video clean switch to support switching of data rates up to 12G. Ultriclean offers completely clean video switching on a per output port basis that guarantees glitch-free video, and quiet switch audio routing. Other routers cannot offer this and require dedicated, special hardware with complex systemization that must be planned in advance, which only makes Ultrix even more cost effective. Key applications for Ultriclean are master control bypass, as well as for situations where disruption of a source signal can cause downstream equipment to rellock like monitors, downstream encoders, and others.

KEY FEATURES:
- Up to 36 Clean switches in 1RU
- Up to 72 Clean switches in 2RU
- Up to 160 Clean switches in 5RU
- Works in SD/HD/3G/12G
- Scales to offer as many outputs as needed – even up to 100% clean outputs
- Variable timing delay
- Easy setup and operation
- No manual timing steps required – automatically detects delay and adjusts appropriately to maintain clean switching
- When combined with Ultrimix, also provides ‘Quiet’ switching for embedded audio during a video switch

ULTRISYNC

Software Defined Frame syncs

Ultrisync is a software defined frame sync feature that can be assigned to any video input on the system. Ultrisync assures consistent timing for all inputs, no matter what the input conditions or what the system is busy doing. Ultrisync can be enabled on all input ports for timing wild input feeds to house reference within the facility or flypack. It is furnished with one or many inputs, where used with Utriclean enabled outputs, Ultrisync licensed inputs guarantees that signals will within a timing window (5 clean switch applications, licenses available for single or multiple inputs, and can act as floating licenses that affect whatever inputs are desired). The function can be applied to every input in the chassis, and with data rates of 3G and below - the entire frame can be populated. This software feature is much more cost effective than having to use an external frame sync.

KEY FEATURES:
- Software enable frame sync
- Up to 36 Frame syncs in 1RU, up to 72 Frame syncs in 2RU, up to 160 Frame syncs in 5RU
- Audio SRC for all embedded channels
- Support for signals from SD to 3G on all ports. Up to 3 ports per slot can support Frame syncs up to 12G.
- Simple enable/disable via checkbox
- Input timing status
- Up to 500 milliseconds of variable delay per mono channel
- Frame syncs and standard with Ultra-IP-IO
- No SRC
- Support for data rates from 1.5G to 12G on all ports
ULTRIPOWER
External 1 RU power supply

Ultripower is a rack-mountable fully redundant power supply. In environments where equipment ruggedness, security, and maximum space savings are critical, Ultripower is a great fit. Rack-mountable, shallow, as well as easy to access and maintain, it is perfect for things like flypacks, OB Production, or equipment rooms where rack space is at a premium. Ultripower is also able to power multiple Ultrix chassis from a single system. One Ultripower chassis can provide redundant power for up to (4) 1RU Ultrix frames, (2) 2RU Ultrix frames or (1) Ultrix 5RU frame.

Dashboard control and monitoring software can be used to configure, actively control, and monitor all key parameters of the device. In addition, Ultripower has three LED indicators on each power supply module to identify key alarm and power presence.

KEY FEATURES:
• 1RU external, rack-mountable power supply
• Front loading, hot swappable, redundant 1200W power supplies
• Power up to (4) 1RU Ultrix, and (2) 2RU Ultrix or (1) 5RU Ultrix with redundant power
• Adjustable rack ears
• Control/Monitoring over Ethernet via Dashboard
• LED indicators for Fan & Power

ULTRICOOL
External 1 RU cooling system

Smart, directional 1RU rack mount fully redundant cooling system to compliment equipment thermal performance when in extreme conditions or in confined spaces. Unit can be configured to provide directional airflow from front to back, front to right side, or front to left side depending on equipment requirements.

KEY FEATURES:
USER CHANGEABLE DIRECTIONAL AIRFLOW
Users can change airflow patterns from front to left or front to right or front to back to enable use with a wide range of equipment when in confined spaces or extreme thermal environments.

CONTROL FRIENDLY
Control via Dashboard, Rosstalk, as well as an integrated “smart” bonded mode with Ultrix provides many ways to control fan speed. In addition front panel control with lockout is available.

CONSISTENT OPERATING CONDITIONS
Ever needed to rack a bunch of high powered equipment in a tight case in scorching desert heat at high altitude during production? Well, some of our customers do, and we wanted to see if we could design something to help out. Ultricool manages airflow to provide a consistent operating condition in extreme environments. This gives means equipment stays at a constant operating temperature to ensure performance.
Every control panel in the system can be independently configured to meet the needs of the particular operator position at which it is deployed. Ultricore offers highly flexible, yet simple and intuitive control panels, that can be configured to operate as an X-Y, cut-bus or multi-cutbus panel.

**CONTROL PANELS**
- **Ultradash**
  - A family of powerful system control panels from Ross Video that is totally customizable and has been designed around you. The panels come in 2RU and 4RU rack-mountable touchscreen that builds on the functionality of traditional control products by adapting to your workflow, and it features a user interface that has more in common with a modern smartphone than a broadcast control panel.
- **Ultradash Smart Touch**
  - The magic of Ultradash lies in its powerful Smart Touch capabilities. This graphics intensive panel simplifies use and makes it very easy to control large amounts of multiviewers from a single control surface.
- **Ultradash RCP**
  - A multiviewer control panel that allows for control of layouts, pips, and pip behavior. This graphics intensive panel simplifies use and makes it very easy to control large amounts of multiviewers from a single control surface.

**KEY FEATURES:**
- Control a wide range of Ross products including production switchers, Xpression graphics, Overdrive APC, openGear and Ross Routing systems, among others.
- Quickly change between panel styles and layouts, maximizing the usability of the panel and making your operations more efficient.
- Create and import custom panels
- NDI stream monitoring

In addition, Ultradash combined with Ultrie routers gives users a tremendous amount of flexibility and advanced power including:
- Quick setup using the Ultradash software wizard
- Custom panel layouts using flexible Windows and Drawers based on user preference
- Button per source, Cat/Idx, Grouping, Favorites, Advanced Statusing, Salvo operations and more
- Destination follow monitoring with video using NDI streaming direct on the panel
- A multi-viewer control panel that allows for control of layouts, pips, and pip behavior. This graphics intensive panel simplifies use and makes it very easy to control large amounts of multiviewers from a single control surface.

**RCP-ME**
- The RCP-ME is an Ethernet-based panel, which means ease of configuration and flexible control architectures. When combined with the NK-NET, the NK-ME panel offers users the most redundant communications set up for small systems in the industry.
- The RCP-ME has button programmability including source, destination, breakaway level select, master, protect, take and panel lock, as well as a backlit 16×2 LCD display for display of source and destination names, system warnings and errors.

**KEY FEATURES:**
- 40 fully illuminated LED backlit buttons
- Full function, programmable control panel
- Ability to connect to primary and backup IP addresses for control redundancy
- Slim design: 1RU, depth 4.4cm
- Ethernet connectivity
- Ability to connect to primary and backup IP addresses for control redundancy
- Ethernet based control
- Ability to connect to primary and backup IP addresses for control redundancy
- Full function, programmable control panel
- Menu driven and single key configurations
- Unique multi-level menu programming
- Configure with Dashboard Control System
- Universal power supply included
- 5-year transferable warranty

**RCP-QE**
- The RCP-QE Series offers unmatched flexibility and ease of use. They are ideal for use in OB vans or production houses where configurations change regularly, and are equally useful in studios where unlimited configurations enable fast and simple customized setups of each panel.
- Ethernet-based connectivity means ease of configuration, and provides for flexible control architectures. The RCP-QE Series remote control panel offers 18 or 36 colored backlit graphic LCD keys with multiple menus, enabling users to easily navigate through the system with just a few key presses.

**KEY FEATURES:**
- 18 (RCP-QE18) or 36 (RCP-QE36) backlit graphic LCD keys
- 8 programmable function keys
- Slim design: 1RU, depth 4.4cm
- Ethernet based control
- Ability to connect to primary and backup IP addresses for control redundancy
- Full function, programmable control panel
- Menu driven and single key configurations
- Unique multi-level menu programming
- Configure with Dashboard Control System
- Universal power supply included
- 5-year transferable warranty
AN EPIC FORCE THAT WILL IMPRESS

Every so often a system emerges that has been designed to redefine what is possible and change how things are done. Ultrix was conceived to fill the gap of what has been available between smaller and larger routing systems. Sophisticated features and extensive function integration that improve performance and simplify system deployment should not be limited only to large and costly routers.

The Ultrix architecture is a true game changer. Every detail has been painstakingly thought out and reviewed. High speed design parameters have been pushed to the maximum, providing a system that offers a leading edge feature set at an incredible value. The Ultrix platform sets the bar for what should be expected in small to mid-size routers. Catch the new wave. Ultrix.

WHAT’S INSIDE WILL INSPIRE.

- Innovative integrated passive cooling design for improved performance and longevity
- Removable fans
- Integrated front panel control and display for system status, configuration, and alarm monitoring
- Redundant Ethernet link status indicators
Ultrix has been singularly designed to optimize signal integrity and performance to set a new standard in reliability. It is also designed to lessen the stress of choosing advanced I/O capabilities when making such a significant capital expenditure. Software licensing provides users an easy path forward to add features as they need them, without having to scrap hardware that could otherwise be used anywhere. With Ultrix, users move to advanced workflow requirements at their own pace and growth rate.

### Ultrix Hardware Specifications

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<th>1RU</th>
<th>2RU</th>
<th>5RU</th>
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<td>USB to Serial for 3rd party interface</td>
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<td><strong>Multi-use USB</strong></td>
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<td><strong>Reference Inputs</strong></td>
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<tr>
<td><strong>Redundant Ethernet</strong></td>
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</table>

### Optional I/O Slots

**Ultrix-SFP-IO**
- 16 SFP ports + 2 AUX I/O ports

**Ultrix-HDB-IO**
- 16x16 HD BNC + 2 AUX I/O ports

**Ultrix-IP-IO**
- 4x25GE SFP28 + 2 SFP I/O ports

### I/O Card Weight (approx per board)

- 1.36 kg (3 lbs)

### PHYSICAL DIMENSIONS

**Ultrix Hardware Specifications**
- 1RU: 460 x 362 x 45 (18 x 14 x 1.8"
- 2RU: 460 x 362 x 45 (18 x 14 x 1.8"
- 5RU: 460 x 362 x 45 (18 x 14 x 1.8"

### Native Support

- Discrete audio I/O MADI over Fiber or Coax
- For Video (BNC, Fiber, HDMI, IP)
- Discrete audio I/O MADI over Fiber or Coax
- 3rd party I/O Support

### Embedded Audio Specifications

- SD: 270 Mb/s
- 1.5 Gb/s: < 2 UI Timing (up to 270M)
- 3.0 Gb/s: < 0.2 UI Alignment (up to 3G)
- UHD 60M, 3G 180M, HD
- 1.5 Gb/s: < 1 UI Timing (1.5G)
- 3.0 Gb/s: < 0.3 UI Alignment (12G)
- UHD 60M, 3G 180M, HD

### SDI Formats

- 270 Mb/s: 400-800ps
- 1.5 Gb/s: < 1 UI Timing (1.5G)
- 3.0 Gb/s: < 0.3 UI Alignment (12G)
- UHD 60M, 3G 180M, HD

### Video Streams per Card

- (4) 25GE SFP28

### AUX Ports

- 16 non-redundant
- 4+4 redundant

### Video Format Support

- 1080p 25/ 29.97/ 30/ 50 / 59.94 / 60
- 720p 25/ 29.97/ 30/ 50 / 59.94 / 60
- 1080i 50 / 59.94 / 60
- 2160p 25/ 29.97/ 30/ 50 / 59.94 /60
- 400-800ps

### System Timing and Reference

- 3rd party control systems
- DashBoard and/or our published
- EmBER+ discovery, registration and configuration
- AIMS-compliant discovery, registration and configuration
- SMPTE ST 2110 suite, including:
- 2160p 25/ 29.97/ 30/ 50 / 59.94 / 60
- 1080p 25/ 29.97/ 30/ 50 / 59.94 / 60
- 1080i 50 / 59.94 / 60
- NMOS IS-04 and IS-05
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- SMPTE ST 2110 suite, including:
- 2160p 25/ 29.97/ 30/ 50 / 59.94 / 60
- 1080p 25/ 29.97/ 30/ 50 / 59.94 / 60
- 1080i 50 / 59.94 / 60
- NMOS IS-04 and IS-05

### JSON API

- 3rd party control systems
- DashBoard and/or our published
- EmBER+ discovery, registration and configuration
- AIMS-compliant discovery, registration and configuration
- SMPTE ST 2110 suite, including:
- 2160p 25/ 29.97/ 30/ 50 / 59.94 / 60
- 1080p 25/ 29.97/ 30/ 50 / 59.94 / 60
- 1080i 50 / 59.94 / 60
- NMOS IS-04 and IS-05

### Ultrix 1RU

- 1RU: 460 x 362 x 45 (18 x 14 x 1.8"
- 2RU: 460 x 362 x 45 (18 x 14 x 1.8"
- 5RU: 460 x 362 x 45 (18 x 14 x 1.8"

### Ultrix 2RU

- 1RU: 460 x 362 x 45 (18 x 14 x 1.8"
- 2RU: 460 x 362 x 45 (18 x 14 x 1.8"
- 5RU: 460 x 362 x 45 (18 x 14 x 1.8"

**Ultrix-NS and Ultrix-5RU only**
- ULTRIX-5RU only
- ULTRIX-5RU only

**MSA/Non MSA configurable**
- 270 Mb/s
- 1.5 Gb/s: < 135ps
- 12 Gb/s: <45ps
- UHD 60M, 3G 180M, HD
- 1.5 & 3GB/s: < 135ps
- 12 Gb/s: <45ps
- UHD 60M, 3G 180M, HD

**AUX ports**
- 16 non-redundant
- 4+4 redundant
- 8 non-redundant
Ross Video has a complete range of technical services available to ensure that your Ultrix installation is a success.

Operational Training can be provided at Ross Video, on-site, or on the web. Experienced Ross operators will teach your staff to get the most out of your new system and enhance your productions.

Commissioning is a service to help get your production system properly configured, connected, and installed. This service is performed by factory-trained Ross technical staff.

Technical Training can be provided at Ross Video, on-site, or over the web. Technical training will teach your engineering staff the technical details of the system you have purchased. System configuration, interfaces, databases, and routine maintenance procedures are some of the topics covered.

Ultrix comes standard with a 1 year comprehensive warranty. Extended Warranties on hardware and software maintenance are available for an annual fee.

Technical advice is available on-line, by telephone, or email to Ross Video – Included for the life of your system.