Platinum™ MX routing switchers combine a highly robust architecture with the flexibility required to future-proof your investment, delivering unsurpassed value for your mid-scale routing needs. All Platinum MX frames provide independent signal paths and crosspoints for audio and video, allowing complete versatility regardless of matrix size. Designed to support high-quality routing of all analog and digital video and audio signals, Platinum MX seamlessly integrates the capabilities of a discrete audio infrastructure in a fully embedded video plant without the need for a secondary audio frame.

In keeping with a tradition of innovation — the hallmark of Platinum routing systems — Harris introduces an eight-channel frame sync input card that allows up to eight wild video signals to be synchronized to house reference without the use of external frames or wiring. This optional card also will perform demultiplexing of up to 16 channels of embedded audio in each video stream, which can then be routed independently and discretely.

Created to support 24/7 operation, Platinum MX routing switchers are well-suited to network, local broadcaster, mobile production, cable, telco, government and corporate applications — any environment that requires routing of a large number of audio and video signals.

**FEATURES**
- Mixed-signal routing (SD, HD, 3 Gb/s and audio)
  - Up to 72x64 video in 5RU (up to 144x128 discrete stereo/audio)
  - Up to 128x128 video in 9RU (up to 256x256 discrete stereo/audio)
- All Platinum frames have independent signal paths and crosspoints for video and audio
- Optional eight-channel frame sync input card for wild feed ingest and audio shuffling, as well as demultiplexing of up to 16 channels of embedded audio in each video stream
- Modular I/O in groups of eight provides support for either coaxial or fiber connectivity
- Front-loading, hot-swappable modules for 24/7 operation
- Redundant power supplies, controllers and signal paths
- Mux/demux audio processing support
  - Mux/demux 16 channels of audio per video stream
  - Full mono breakaway audio routing support
  - Seamless integration between demultiplexed and discrete audio
  - Multiplex 16 channels of audio into each video output
- Enhanced control and monitoring
  - Wide range of hardware control panels
  - Powerful control integration for easy setup and configuration
  - Software and web-based applications with user-configurable GUs
  - Protocol support for CCS Navigator™, SNMP and third-party vendors
  - Secure access rights with restrictions by level, source and destination
- Video routing support
  - 1080p (3 Gb/s) signal routing (any size)
  - Almost any digital video signal from 3 Mbits/s to 3 Gb/s including: HD-SDI, SD-SDI, ASI, SMPTE 310, SMPTE 365, etc.
  - SMPTE-compliant analog video supported via conversion to/from SD-SDI on I/O
- Discrete audio routing support
  - Digital audio signals including balanced and unbalanced AES
  - Analog stereo/mono audio via conversion to/from AES on I/O modules
  - Support for up to 16 embedded AES streams per video input
  - “Quiet switch” with transitions
- HView™ SX integrated internal multiviewer
  - 32 PiPs per HView SX module
  - Onscreen control
  - CC presence and text
  - Clocks and timers
  - Tallies and UMDs
  - Audio meters and phase

**PRODUCT DETAILS**

**World’s First True Embedded Audio Processing Router**

Platinum MX combines the best of both high-bandwidth video signal routing and an internal TDM architecture to provide the world’s first embedded audio infrastructure router. By providing parallel signal paths and dedicated, redundant crosspoints for both audio and video within a single frame, Platinum MX is able to de-embed incoming embedded audio signals internally. All audio within the frame is presented to the TDM M•A•X crosspoint, routed independently and discretely, and can be multiplexed within the router into any digital video output. Additionally, utilizing the TDM M•A•X crosspoint, Platinum can perform phase reversal, swap, sum and “quiet” breakaway switching of the audio between any discrete or embedded input, and provide gain/level adjustments on a per-channel basis. This ability to process and route both discrete and embedded audio within the Platinum frame eliminates the need for racks of external equipment and saves on space, cabling, troubleshooting and maintenance.

All the capabilities of a discrete audio infrastructure are now available with the straightforward wiring of an embedded plant. System designers can now reduce the number of modules and frames, and simplify wiring and system integration tasks while providing enhanced functionality for the end user.

**Enhanced Control and Monitoring**

Harris router control systems make even the most complex router configuration simple and intuitive to implement and maintain. Among the powerful tools available for administering systems are low-level discovery of available hardware, allowing database creation and maintenance to be accomplished from the engineer’s desk; and automatic, wizard-based creation of logical source assignments for demultiplexed audio levels. The DB Editor interface provides access to the Platinum MX router’s distributed control architecture, which drives router frames and control surfaces without reliance on a centralized controller. Each Platinum MX frame features redundant control modules that store configuration information related to that frame in non-volatile memory, protecting your crucial configuration information and current routing status. This topology also allows control panel communication to be distributed throughout the facility, eliminating single points of failure.
## Platinum™ MX
## Advanced Medium-Scale Routing

### Integrated Multiviewer Support

Platinum MX is the only routing system in the marketplace to offer an integrated, internal multiviewer system. HView SX modules reside in the Platinum MX frame, seamlessly providing multiviewer support for all inputs coming into the router. Combining superior graphics, industry-proven architecture and integrated test and measurement tools, HView SX is a landmark development in multiviewer design and value. With multi-image processing, routing, superior graphics and an unrivaled monitoring toolkit all in one chassis, HView SX delivers a lower-cost solution, simpler system design and a more efficient use of space for broadcast video and audio monitoring, master control rooms, broadcast trucks and events. Each multiviewer output provides up to 32 discrete PiP (picture in picture) images that are controlled from the router control system in the same way as dedicated outputs, creating a user-friendly experience that is easily understood by operators.

### Higher Reliability

Platinum MX routing frames are designed for harsh operation (including mobile truck environments) and feature front-loading, hot-swappable modules for ease of serviceability. Employing the latest technology, Platinum MX allows more functionality at lower power consumption, and is supported by redundant, load-sharing power supplies. Airflow runs from front to back, with each fan individually replaceable without taking the system offline. For further reliability, Platinum MX I/O modules support either eight inputs or eight outputs, thereby limiting the number of signals affected by any one module. Each Platinum MX frame supports redundant control, and redundant cross-points are available in most configurations.

### Specifications

Specifications are subject to change without notice.

#### HD Digital Video Inputs (PM-HS-IB+)

<table>
<thead>
<tr>
<th>Number of Inputs</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Connector</td>
<td>BNC, 75 ohms per IEC 169-8</td>
</tr>
<tr>
<td>Impedance</td>
<td>75 ohms</td>
</tr>
<tr>
<td>Signal Type</td>
<td>SMPTE 424M*, SMPTE 292M, SMPTE 259M, SMPTE 344M, DVB-ASI, other &lt;1 V pk-pk digital signals, 3 Mbps to 3 Gbps</td>
</tr>
<tr>
<td></td>
<td>*tested using JBERT (PRBS 23 and pathogenic signal types), as new test equipment becomes available, further compliance testing will continue</td>
</tr>
<tr>
<td>Maximum Input Amplitude</td>
<td>880 mV</td>
</tr>
<tr>
<td>Nominal Input Amplitude</td>
<td>800 mV ±10%</td>
</tr>
</tbody>
</table>

#### SD Digital Video Inputs (PM-S-IB+)

<table>
<thead>
<tr>
<th>Number of Inputs</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Connector</td>
<td>BNC, 75 ohms per IEC 169-8</td>
</tr>
<tr>
<td>Impedance</td>
<td>75 ohms</td>
</tr>
<tr>
<td>Signal Type</td>
<td>SMPTE 259M, SMPTE 344M, DVB-ASI; Other &lt;1 V pk-pk digital signals, 3 to 540 Mbps</td>
</tr>
<tr>
<td>Maximum Input Amplitude</td>
<td>880 mV</td>
</tr>
<tr>
<td>Nominal Input Amplitude</td>
<td>800 mV ±10%</td>
</tr>
</tbody>
</table>

#### Balanced Digital Audio Inputs (PM-AEBT-IB)

<table>
<thead>
<tr>
<th>Number of Inputs</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Type</td>
<td>Balanced, transformer coupled</td>
</tr>
<tr>
<td>Input Connector</td>
<td>DB-25</td>
</tr>
<tr>
<td>Impedance</td>
<td>110 ohms</td>
</tr>
<tr>
<td>Signal Type</td>
<td>AES-3, AES frame rates 32 to 192 kHz, other 40% to 60% duty cycle digital signals from 2 to 25 Mbps</td>
</tr>
<tr>
<td>Input Amplitude</td>
<td>0.2 V to 7 V pk-pk</td>
</tr>
<tr>
<td>Nominal Input Amplitude</td>
<td>5 V pk-pk ±1 V</td>
</tr>
</tbody>
</table>

#### Unbalanced Digital Audio Inputs (PM-AECT-IB)

<table>
<thead>
<tr>
<th>Number of Inputs</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Type</td>
<td>AC, coupled</td>
</tr>
<tr>
<td>Input Connector</td>
<td>BNC, 75 ohms per IEC 169-8 (via adapter)</td>
</tr>
<tr>
<td>Impedance</td>
<td>75 ohms</td>
</tr>
<tr>
<td>Signal Type</td>
<td>AES-3, SMPTE 276M, AES frame rates from 32 to 192 kHz, other 40% to 60% duty cycle digital signals 2 to 25 Mbps</td>
</tr>
<tr>
<td>Input Amplitude</td>
<td>0.1 to 2 V pk-pk</td>
</tr>
<tr>
<td>Nominal Input Amplitude</td>
<td>1 V pk-pk ±10%</td>
</tr>
</tbody>
</table>

### Analog Video Inputs (PM-DEC-IB)

<table>
<thead>
<tr>
<th>Number of Inputs</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Connector</td>
<td>BNC, 75 ohms per IEC 169-8</td>
</tr>
<tr>
<td>Impedance</td>
<td>75 ohms</td>
</tr>
<tr>
<td>Signal Type</td>
<td>NTSC, PAL</td>
</tr>
<tr>
<td>Input Coupling</td>
<td>DC, coupled</td>
</tr>
<tr>
<td>Maximum Input Amplitude</td>
<td>2 V pk-pk</td>
</tr>
<tr>
<td>Nominal Input Amplitude</td>
<td>1 V pk-pk ±10%</td>
</tr>
</tbody>
</table>

### Analog Audio Inputs (PM-ADCT-IB)

<table>
<thead>
<tr>
<th>Number of Inputs</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Type</td>
<td>Balanced</td>
</tr>
<tr>
<td>Input Connector</td>
<td>DB-44</td>
</tr>
<tr>
<td>Impedance</td>
<td>&gt;20 k ohms</td>
</tr>
<tr>
<td>Signal Type</td>
<td>Stereo analog audio</td>
</tr>
<tr>
<td>Maximum Input Amplitude</td>
<td>+28 dBu</td>
</tr>
</tbody>
</table>

### Output Data Rate

- 10-bit: 270 Mbps per SMPTE 259C
- 12-bit: 1080 Mbps per SMPTE 259C
- 16-bit: 270 Mbps per SMPTE 259C
- 24-bit: 810 Mbps per SMPTE 259C

### Sampling Rates

- 32 to 192 kHz using external AES reference
- 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz or 192 kHz using internal oscillators

### Gain Stability

- ±0.01 dB

### Frequency Response

- ±0.15 dB, 20 Hz to 20 kHz

### Linearity Deviation

- <±0.5 dB typical, <±1.0 dB worst case

### THD+N

- <0.01% @ 997 Hz, –1 dBFS = +23 dBu

### Idle Channel Noise

- <100 dBFS CCIR-RMS, typical
- <90 dBFS CCIR-RMS, worst case

### Dynamic Range

- >100 dB CCIR-RMS, typical
- >90 dB CCIR-RMS, worst case

### Crosstalk

- >90 dB isolation, 20 Hz to 20 kHz, all hostile (hostile channels driven at -1 dBFS = +23 dBu)

- >90 dB isolation, 20 Hz to 20 kHz, all hostile (hostile channels driven at -1 dBFS = +23 dBu)
Platinum™ MX
Advanced Medium-Scale Routing

**HD Digital Outputs (PM-HSR-OBG+)**
- Number of Outputs: 8
- Output Connector: BNC, 75 ohms per IEC 169-8
- Impedance: 75 ohms
- Signal Type: SMPTE-424M, SMPTE 292M, SMPTE 259M, SMPTE 344M, DVB-ASI
- Propagation Delay: Automatic for 2.970 Gb/s, 2.967 Gb/s, 1.485 Gb/s, 1.4835 Gb/s, and 270 Mb/s
- DC Offset: 0 V ±0.5 V
- Rise/Fall Times: <170 ns, for SMPTE 259M data rates
- Output Amplitude: <10% of amplitude

**SD Digital Outputs (PM-SR-OBG+)**
- Number of Outputs: 8
- Output Connector: BNC, 75 ohms per IEC 169-8
- Impedance: 75 ohms
- Signal Type: Signal type SMPTE 259M, SMPTE 344M, DVB-ASI
- Propagation Delay: Automatic for 270 Mb/s
- DC Offset: 0 V ±0.5 V
- Rise/Fall Times: 400 to 1500 ps, for SMPTE 259M data rates
- Output Amplitude: <10% of amplitude

**Balanced Digital Audio Outputs (PM-AEBT-OB)**
- Number of Outputs: 16
- Output Type: Balanced, transformer coupled
- Output Connector: DB-25
- Impedance: 110 ohms
- Signal Type: AES-3
- AES frame rates from 32 to 192 kHz
- Other 40% to 60% duty cycle digital signals from 2 to 25 Mb/s
- Output Amplitude: 5 V pk-pk ±1 V into 110 ohms load
- DC Offset: 0 V ±0.05 V
- Rise/Fall Times: 5 to 30 ns
- Propagation Delay: <170 ns

**Unbalanced Digital Audio Outputs (PM-AECT-OB)**
- Number of Outputs: 16
- Output Type: Unbalanced
- Output Connector: BNC, 75 ohms per IEC 169-8 (via adaptor)
- Impedance: 75 ohms
- Signal Type: AES-3id, SMPTE 276M
- AES frame rates from 32 to 192 kHz, other 40% to 60% duty cycle digital signals from 2 to 25 Mb/s
- Output Amplitude: 1 V pk-pk ±10% into 75 ohms load
- DC Offset: 0 V ±0.05 V
- Rise/Fall Times: 30 to 44 ns
- Propagation Delay: <170 ns

**Analog Video Outputs (PM-ENC-OB)**
- Number of Outputs: 16
- Output Type: Balanced
- Output Connector: DB-44
- Impedance: 66 ohms
- Signal Type: Stereo analog audio
- Maximum Full Scale Adjustment Range: ±28 dBu
- Full Scale Adjustment Range: 0 dBFS = +13 dBu to +28 dBu in 1 dB steps, ±0.5 dB
- DC Offset: 0 V ±0.05 V
- Conversion Type: 128x oversampling, fifth-order, delta-sigma
- Resolution: 24 bits
- AES Frame Rates: 32 to 192 kHz
- Gain Stability: ±0.01 dB
- Frequency Response: ±0.25 dB, 20 Hz to 20 kHz
- Linearity Deviation: ±0.05 dB
- THD+N: <0.01% @ 997 Hz, -1 dBFS = +23 dBu
- Idle Channel Noise: <100 dBFS CCIR-RMS
- Dynamic Range: >100 dB CCIR-RMS
- Crosstalk: >90 dB isolation, 20 Hz to 20 kHz, all hostile, typical (hostile channels driven at -1 dBFS = +23 dBu)

**Physical**
- Dimensions (W x D x H): 5RU (PM-FR-5): 17.5 x 18.4 x 15.75 in. (44.5 x 46.7 x 22.2 cm)
- 9RU (PM-FR-9): 17.5 x 18.4 x 15.75 in. (44.5 x 46.7 x 22.2 cm)
- Weight Fully Loaded: (approximately) 5RU (PM-FR-5): 68 lbs (31 kg)
- 9RU (PM-FR-9): 125 lbs (57 kg)
## Ordering Information

### Frame Components
- **PM-FR-5**: Platinum MX 5RU frame assembly (includes -PS, -RES)
- **PM-FR-9**: Platinum MX 9RU frame assembly (includes -PS, -RES)
- **PT-PS**: AC redundant power supply
- **PT-FAN**: Replacement fan
- **PT-ALARM**: Replacement alarm module
- **PM-FR-5-DC**: Platinum MX 5RU frame assembly with DC power (includes -PS, -RES)
- **PM-FR-9-DC**: Platinum MX 9RU frame assembly with DC power (includes -PS, -RES)
- **PT-PS-DC**: DC redundant power supply

### Control Components
- **PT-RES**: Resource controller module
- **PT-SNMP-128**: SNMP license (per 128 inputs and outputs)

### Cross-Point Modules
- **PM-40x32-3G5**: Platinum MX 40x32 cross-point module for 5RU
- **PM-64x64-3G9**: Platinum MX 64x64 cross-point module for 9RU
- **PM-72x64-3G5**: Platinum MX 72x64 cross-point module for 5RU
- **PM-128x128-3G9**: Platinum MX 128x128 cross-point module for 9RU
- **PM-64x64-X9**: Platinum MX 64x64 3 Gb/s cross-point module for 9RU

### TDM Cross-Point Modules
- **PM-ATDM9-X5**: Platinum MX ATDM XPT for 9 slots audio in 5RU
- **PM-ATDM16-X9**: Platinum MX ATDM XPT for 16 slots audio in 9RU

### Input Modules
- **PM-HS-IB**: Platinum MX 8 HD-SDI input module with options and back plane
- **PM-S-IB**: Platinum MX 8 SD-SDI input module with options and back plane
- **PM-DEC-IB**: Platinum MX 8 analog to SDI decoder input with back plane
- **PT-HSDI-IB**: Platinum MX 16 unbalanced AES input module with back plane
- **PM-AECT-IB**: Platinum MX 16 balanced AES input module with back plane
- **PM-AEBT-IB**: Platinum MX 16 balanced AES input module with back plane
- **PM-ADCT-IB**: Platinum MX 16 stereo to balanced AES input with back plane
- **PT-DMX**: Demultiplexer daughter board for video signals up to 1.5 Gb/s
- **PT-DMX-3G**: Demultiplexer daughter board for video signals up to 3 Gb/s
- **PT-FSDMX-IBG**: Internal demultiplexer base board-frame sync-capable, coaxial connectivity for signals up to 3 Gb/s
- **PT-FSDMXO-IBG**: Internal demultiplexer base board-frame sync-capable, optical connectivity for signals up to 3 Gb/s
- **PT-FSIB-OPT**: License to enable frame sync capability on PT-FSDMX-IBG or PT-FSDMXO-IBG for signals up to 3Gb/s
- **PT-HSR8C1D-IBG**: Platinum SD/HD/3G matrix expansion input module w/ 8 HD BNC + matrix expansion back panel

### Output Modules
- **PT-HSR801D-IBG**: Platinum SD/HD/3G matrix expansion input module w/ 8 fiber/4 SFP cages + matrix expansion back panel
- **PT-HSR1D-IBG**: Platinum SD/HD/3G matrix expansion input module; requires one 6 m or 10 m DensiShield cable
- **PT-FSDX8C1D-IBG**: Platinum SD/HD/3G demux input module w/ 8 HD BNC + matrix expansion back panel - frame sync capable
- **PT-FSDX801D-IBG**: Platinum SD/HD/3G demux input module w/ 8 fiber/4 SFP cages + matrix expansion back panel - frame sync capable
- **PT-MAD4C-IBG**: Platinum MADI audio input module w/ 4 active BNC
- **PT-MAD4O-IBG**: Platinum MADI audio input module w/ 4 fiber/2 SFP cages
- **PT-HSR20-IBG**: Platinum SD/HD/3G matrix expansion DensiShield input module; requires one 6 m or 10 m DensiShield cable

### Control Components
- **PT-PS**: Resource controller module
- **PT-SNMP-128**: SNMP license (per 128 inputs and outputs)

### Control Components
- **Pt-Res**: Resource controller module
- **Pt-Snmp-128**: SNMP license (per 128 inputs and outputs)

### Cross-Point Modules
- **PM-40x32-3G5**: Platinum MX 40x32 cross-point module for 5RU
- **PM-64x64-3G9**: Platinum MX 64x64 cross-point module for 9RU
- **PM-72x64-3G5**: Platinum MX 72x64 cross-point module for 5RU
- **PM-128x128-3G9**: Platinum MX 128x128 cross-point module for 9RU
- **PM-64x64-X9**: Platinum MX 64x64 3 Gb/s cross-point module for 9RU

### TDM Cross-Point Modules
- **PM-ATDM9-X5**: Platinum MX ATDM XPT for 9 slots audio in 5RU
- **PM-ATDM16-X9**: Platinum MX ATDM XPT for 16 slots audio in 9RU

### Input Modules
- **PM-HS-IB**: Platinum MX 8 HD-SDI input module with options and back plane
- **PM-S-IB**: Platinum MX 8 SD-SDI input module with options and back plane
- **PM-DEC-IB**: Platinum MX 8 analog to SDI decoder input with back plane
- **PT-HSDI-IB**: Platinum MX 16 unbalanced AES input module with back plane
- **PM-AECT-IB**: Platinum MX 16 balanced AES input module with back plane
- **PM-AEBT-IB**: Platinum MX 16 balanced AES input module with back plane
- **PM-ADCT-IB**: Platinum MX 16 stereo to balanced AES input with back plane
- **PT-DMX**: Demultiplexer daughter board for video signals up to 1.5 Gb/s
- **PT-DMX-3G**: Demultiplexer daughter board for video signals up to 3 Gb/s
- **PT-FSDMX-IBG**: Internal demultiplexer base board-frame sync-capable, coaxial connectivity for signals up to 3 Gb/s
- **PT-FSDMXO-IBG**: Internal demultiplexer base board-frame sync-capable, optical connectivity for signals up to 3 Gb/s
- **PT-FSIB-OPT**: License to enable frame sync capability on PT-FSDMX-IBG or PT-FSDMXO-IBG for signals up to 3Gb/s
- **PT-HSR8C1D-IBG**: Platinum SD/HD/3G matrix expansion input module w/ 8 HD BNC + matrix expansion back panel

### Output Modules
- **PT-HSR801D-IBG**: Platinum SD/HD/3G matrix expansion input module w/ 8 fiber/4 SFP cages + matrix expansion back panel
- **PT-HSR1D-IBG**: Platinum SD/HD/3G matrix expansion input module; requires one 6 m or 10 m DensiShield cable
- **PT-FSDX8C1D-IBG**: Platinum SD/HD/3G demux input module w/ 8 HD BNC + matrix expansion back panel - frame sync capable
- **PT-FSDX801D-IBG**: Platinum SD/HD/3G demux input module w/ 8 fiber/4 SFP cages + matrix expansion back panel - frame sync capable
- **PT-MAD4C-IBG**: Platinum MADI audio input module w/ 4 active BNC
- **PT-MAD4O-IBG**: Platinum MADI audio input module w/ 4 fiber/2 SFP cages
- **PT-HSR20-IBG**: Platinum SD/HD/3G matrix expansion DensiShield input module; requires one 6 m or 10 m DensiShield cable
Platinum™ MX
Advanced Medium-Scale Routing

Output Monitoring Module
PT-HSRAEC-OM . . . . . . . . . . . . . . . . 3 Gb/s HD-SDI output monitoring module

Back Modules (included with front module but orderable separately)
PT-BLANK1-BP . . . . . . . . . . . . . . . . 1-slot blank/spacer back plane
PT-BLANK2-BP . . . . . . . . . . . . . . . . 2-slot blank/spacer back plane
PT-BLANK4-BP . . . . . . . . . . . . . . . . 4-slot blank/spacer back plane
PT-BLANK16-BP . . . . . . . . . . . . . . . . 16-slot blank/spacer back plane
PT-HS-BP+ . . . . . . . . . . . . . . . . . 8-BNC 3G back plane (HSR, SR, ENC, DEC)
PT-A2-IBP . . . . . . . . . . . . . . . . . . 16-stereo audio input back plane
PT-A2-OBP . . . . . . . . . . . . . . . . . . 16-stereo audio output back plane
PT-AEB-IBP . . . . . . . . . . . . . . . . . . 16-balanced AES audio input back plane
PT-AEB-OBP . . . . . . . . . . . . . . . . . . 16-balanced AES audio output back plane
PT-AEC-IBP . . . . . . . . . . . . . . . . . . 16-unbalanced AES input back plane with cable
PT-AEC-OBP . . . . . . . . . . . . . . . . . . 16-unbalanced AES output back plane with cable
PT-CAB-AEC-BOC . . . . . . . . . . . . . . . . 16-unbalanced AES break-out cable
PT-A2-DTB . . . . . . . . . . . . . . . . . . 16-stereo break-out screw terminal back plane
PT-A2-44MALEDB . . . . . . . . . . . . . . . . 16-stereo 44-pin male DB connector
PT-AEB-25MALEDB . . . . . . . . . . . . . . . . 16-AES 25-pin male DB connector

Service Options
90-Day Elite Care
PT-90-ELITE . . . . . . . . . . . . . . . . 90-day Elite ServicePAK — Enhanced Elite support for the first 90 days: includes on-call project expert, next-day advance exchange of parts, RemoteDialup support and one wrap-up and review session (excludes travel and expenses, actual charges billed using PS-TE-V-SVC)

QuickStart Commissioning
PT-SM-QS . . . . . . . . . . . . . . . . . . Mandatory 3-day QuickStart for 128X Platinum (includes travel and expenses)
PT-SM-QSNT . . . . . . . . . . . . . . . . . . Mandatory 3-day QuickStart for 128X Platinum (excludes travel and expenses, which are billed separately)
PS-TE-V-SVC . . . . . . . . . . . . . . . . . Travel and expense charges for Harris support for video processing and distribution products

ServicePAK Agreements
PT-SM-BASIC . . . . . . . . . . . . . . . . . . 1-year Basic ServicePAK for small (128X) Platinum router
PT-SM-GOLD . . . . . . . . . . . . . . . . . . 1-year Gold ServicePAK for small (128X) Platinum router
PT-RDOPT-BASIC . . . . . . . . . . . . . . . . . 1-year Basic ServicePAK for Platinum redundant options (logic cards and power supplies)
PT-RDOPT-GOLD . . . . . . . . . . . . . . . . . 1-year Gold ServicePAK for Platinum redundant options (logic cards and power supplies)

Training Courses
PT-OPS-OTR . . . . . . . . . . . . . . . . . . 2-day on-site Platinum operational training course (excludes travel and expenses)
PT-OPS-FTR . . . . . . . . . . . . . . . . . . 2-day factory Platinum operational training courses (excludes travel and expenses)