

## Technical Characteristics 4U servers Comparison table

| Parameters  | Fulcrum AT/12G  | Fulcrum ATM/12G                                | Dominator AT/3G                                 | Dominator AT/12G                                | BlackJack AT/4K                                 |  |
|---|---|--|---|---|---|--|
| <b>Video inputs SDI (Replay Mode / Recording for NLE)</b>   |   |  |   |   |   |  |
| 12G*  | 4 / 6 (DMR™ – 3 channels, export – 6 channels)  | 4 / 6 (DMR™ – 3 channels, export – 6 channels) | –   | 6/6   | 3* / 4* (Quad 3G SDI Connection)                |  |
| 3G  | 7 / 8   | 11 / 12  | 14 / 10   | 14 / 10   | 20 / 10   |  |
| HD/1280p/SD   | 7 / 8   | 11 / 12  | 14 / 16   | 14 / 16   | 20 / 24   |  |
| <b>Video outputs SDI (Replay Mode)</b>  |   |  |   |   |   |  |
| 3G/HD/1280p/SD  | 2   | 2  | 2   | 2   | 4   |  |
| 12G*  | 2   | 2  | –   | 2   | 2 (Quad 3G SDI Connection)                      |  |
| 1st Out – Playout with transition effects between clips.<br>2nd Out can be configured as Preview, Multiviewer, Alpha-channel, Game Analyzer or Delay Output*. |   |  |   |   |   |  |
| Graphics ports  | 4 DP  |  |   |   |   |  |
| <b>Video Formats</b>  |   |  |   |   |   |  |
| HD/SD   | 29.97Hz/59.94Hz: 1920x1080/59.94i, 1920x1080/29.97 PsF, 1280x720/59.94p, 720x480/29.97 PsF, 720x480/59.94i<br>25Hz/50Hz: 1920x1080/50i, 1920x1080/25 PsF, 1280x720/50p, 720x576/25 PsF, 720x576/50i<br>Support of 16:9 and 4:3 modes. |  |   |   |   |  |
| 3G  | 1920x1080/59.94p, 1920x1080/119.88i 1920x1080/50p, 1920x1080/100i   |  |   |   |   |  |
| 4K  | UHD (3840x2160) 25p/30p/50p/60p   |  |   |   |   |  |
| <b>Operational channels (simultaneously)</b>  |   |  |   |   |   |  |
| Replay Mode   | 12G SDI   | 4 Record<br>4 Search<br>2 Playback + FX        | 4 Record<br>4 Search<br>2 Playback + FX         | –   | 6 Record<br>6 Search<br>2 Playback + FX         | (Quad 3G SDI Connection):<br>4 Record<br>4 Search<br>2 Playback + FX |
|   | 3G/HD/SD SDI  | Up to 7 Record<br>7 Search<br>2 Playback + FX  | Up to 11 Record<br>11 Search<br>2 Playback + FX | Up to 14 Record<br>14 Search<br>2 Playback + FX | Up to 14 Record<br>14 Search<br>2 Playback + FX | Up to 20 Record<br>20 Search<br>8 Playback + FX                      |

| Parameters  |                | Fulcrum AT/12G  | Fulcrum ATM/12G  | Dominator AT/3G  | Dominator AT/12G   | BlackJack AT/4K  |
|---|----------------|---|--|--|--|--|
| Recording for NLE   | 12G SDI        | Up to 4   | Up to 4  | –  | Up to 6  | Up to 6  |
|   | 3G**/HD/SD SDI | Up to 8   | Up to 12   | Up to 16   | Up to 16   | Up to 24   |
| <b>Codecs</b>   |                |   |  |  |  |  |
| Replay  | 3G / HD / SD   | DCT based I-Frame; ProRes; AVID DNxHD; DVCPRO HD; DVCPRO 50; IMX; XDCAM 50; AVC-Intra 100/XAVC  |  |  |  |  |
|   | 12G (4K)       | DCT based I-Frame 1200Mbit  |  |  |  |  |
| DMR™  | 3G / HD / SD   | ProRes; AVID DNxHD; DVCPRO HD; DVCPRO 50; IMX; XDCAM 50; AVC-Intra 100/XAVC   |  |  |  |  |
|   | 4K             | ProRes 422  |  |  |  |  |
| Export  | 3G / HD / SD   | MJPEG; ProRes; AVID DNxHD; IMX; XDCAM 50; MPEG2 Long GOP; H.264; MPEG4; DVCpro 50 / DVCPRO HD; AVC-Intra 100/XAVC; v.210*   |  |  |  |  |
|   | 4K             | ProRes 4444, RAW UNCOMPRESSED*; 4K ProRes   |  |  |  |  |
| Export Containers   |                | QuickTime / MXF / MP4   |  |  |  |  |
| Storage (SSD)   |                | 266 hrs. HD video<br>100 Mbit/s   | 266 hrs. HD video<br>100 Mbit/s  | 133 hrs. HD video<br>100 Mbit/s  | 266 hrs. HD video<br>100 Mbit/s  | 266 hrs. HD video<br>100 Mbit/s  |
| Multiviewer   |                | Built-in into main interface – up to 9 video windows;<br><br>For 3G / HD / SD only: Separate on second graphics or SDI output –up to 16 video-windows; As one of MultiSkin modes. | Built-in into main interface – up to 13 video windows;<br><br>For 3G / HD / SD only: Separate on second graphics or SDI output –up to 24 video-windows; As one of MultiSkin modes. | Built-in into main interface – up to 16 video windows;<br><br>For 3G / HD / SD only: Separate on second graphics or SDI output –up to 30 video-windows; As one of MultiSkin modes. | Built-in into main interface – up to 16 video windows;<br><br>For 3G / HD / SD only: Separate on second graphics or SDI output –up to 30 video-windows; As one of MultiSkin modes. | Built-in into main interface – up to 22 video windows;<br><br>For 3G / HD / SD only: Separate on second graphics or SDI output –up to 42 video-windows; As one of MultiSkin modes. |
| Recorded Audio Channels***<br>(Replay Mode / Recording for NLE) |                | Up to 56 / 64<br>16 / 24 bit 48 kHz   | Up to 88 / 96<br>16 / 24 bit 48 kHz  | Up to 112 / 128<br>16 / 24 bit 48 kHz  | Up to 112 / 128<br>16 / 24 bit 48 kHz  | Up to 160 / 192<br>16 / 24 bit 48 kHz  |
| Replay Audio Channels   |                | 8 audio channels embedded into SDI video output signal  |  |  |  |  |

| Parameters                       | Fulcrum AT/12G  | Fulcrum ATM/12G | Dominator AT/3G | Dominator AT/12G | BlackJack AT/4K |
|----------------------------------|---|-----------------|-----------------|------------------|-----------------|
| Controller                       | Specialized console Control ZR with push-buttons, T-Bar and Jog/Shuttle<br>(via RS-422 / RS-232* / USB* / Ethernet* interface).   |                 |                 |                  |                 |
| Time-code                        | LTC (SMPTE 12M-1)<br>Support of Drop Frame and Non-Drop Frame for 29.97/59.94 modes   |                 |                 |                  |                 |
| Synchronization                  | Support of BlackBurst and Tri-Level signals   |                 |                 |                  |                 |
| GPIO                             | 2 inputs and 2 outputs for integration with external equipment (Mixer, Switcher, Automation)  |                 |                 |                  |                 |
| Video Standards SDI              | HD video – SMPTE 292M, SMPTE 274M;<br>SD video – SMPTE 259M;<br>720p video – SMPTE 296M 2001<br>3G video – SMPTE 424M / SMPTE 425M;<br>4K video – SMPTE ST-2081 / SMPTE ST-2082 |                 |                 |                  |                 |
| Video Exchange                   | 10 GbE (Network);<br>USB 3.0/eSATA (External HDD Box)<br>Built-in trayless/toolless 3.5" SATA HDD Rack  |                 |                 |                  |                 |
| DMR™ RACK                        | 4   | 4               | 8               | 8                | 8               |
| Replay workplaces<br>(operators) | 1   | 1+1*            | 1+1*            | 1+1*             | 1+3*            |
| Power                            | 110V/60Hz or 220V/50Hz  |                 |                 |                  |                 |
| Power Consumption                | 500 W   |                 |                 |                  |                 |
| Chassis                          | 4U, 19"   |                 |                 |                  |                 |
| Dimensions mm (H W D)            | 176.5 x 483 x 560 (with redundant PS)   |                 |                 |                  |                 |
| Weight kg                        | 20  |                 |                 |                  |                 |

Notes:

\* – optional;

\*\* – depends on the codec used;

\*\*\* – embeded.

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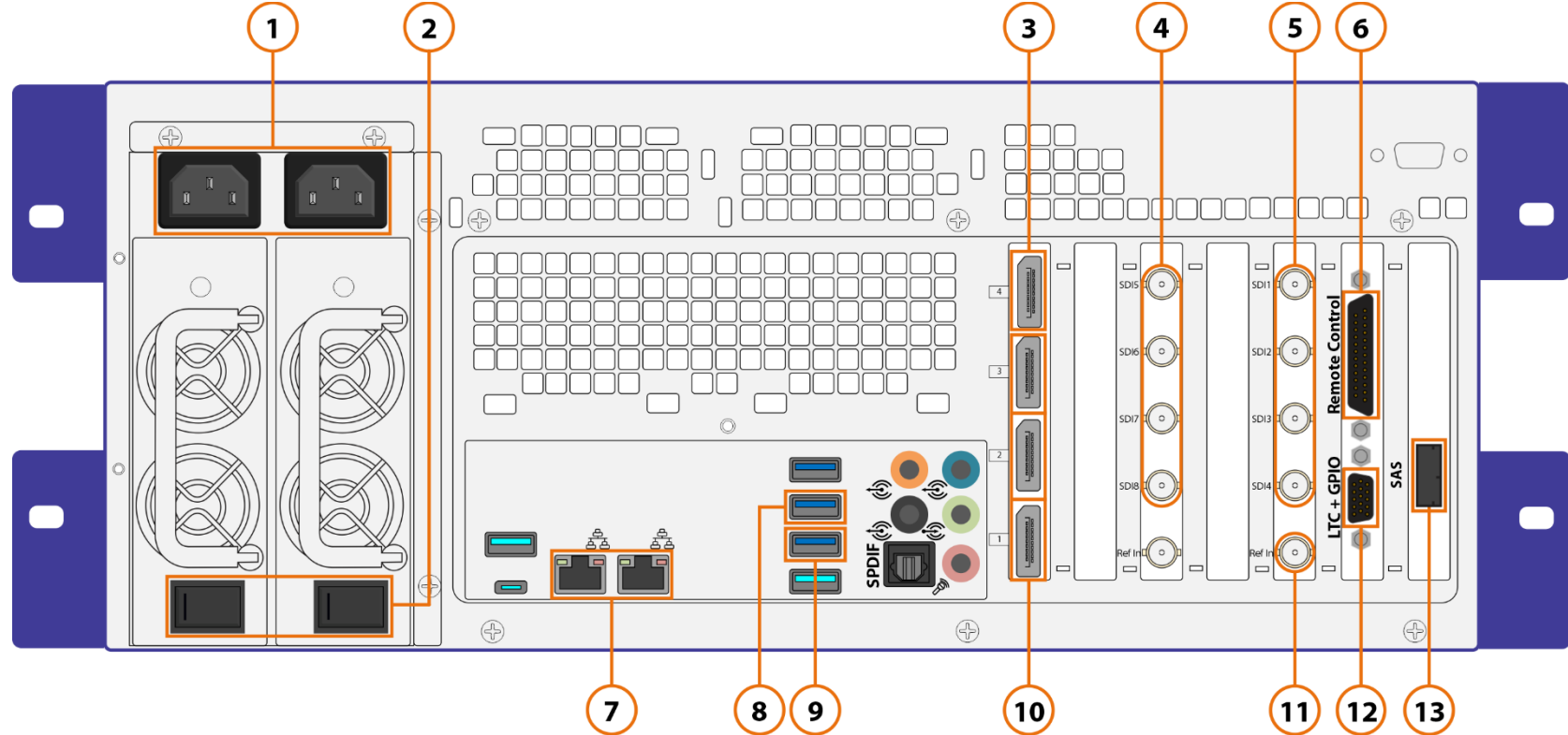
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## Connection diagram Fulcrum AT/12G

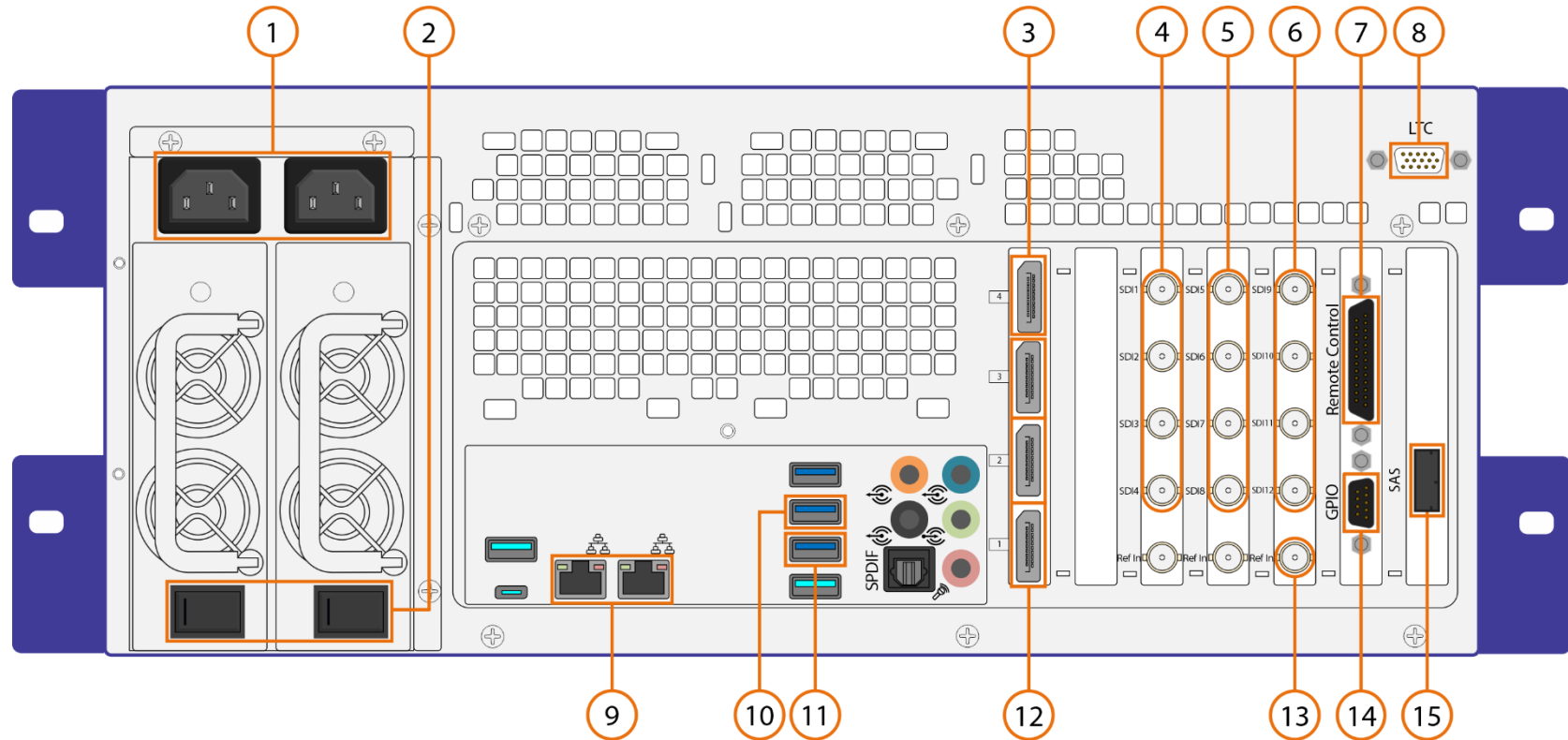


- 1 – Power AC 110/220V 60/50Hz;
- 2 – Power ON/OFF switches;
- 3 – Main Monitor – for Main Interface / Multiviewer (DisplayPort);
- 4 – SDI video Inputs/Outputs 1...4 (BNC);
- 5 – SDI video Inputs/Outputs 5...8 (BNC);
- 6 – Remote Control (DB-25);
- 7 – 10 GbE Network (RJ-45 Ports);

- 8 – Mouse (USB Port);
- 9 – Keyboard (USB Port);
- 10 – Additional Monitor – for Multiviewer / Game Analyzer / Preview (Display Port);
- 11 – Ref In – Synchronization (BNC);
- 12 – LTC + GPIO – Linear Time code Input / GPIO (DHS-15);
- 13\* – SAS.

\* – optional

## Fulcrum ATM/12G



1 – Power AC 110/220V 60/50Hz;

2 – Power ON/OFF switches;

3 – Main Monitor – for Main Interface / Multiviewer (DisplayPort);

4...6 – SDI video Inputs/Outputs 1...12 (BNC);

7 – Remote Control (DB-25);

8 – LTC – Linear Time code Input (DHS-15);

9 – 10 GbE Network (RJ-45 Ports);

10 – Mouse (USB Port);

11 – Keyboard (USB Port);

12 – Additional Monitor – for Multiviewer / Game Analyzer / Preview (Display Port);

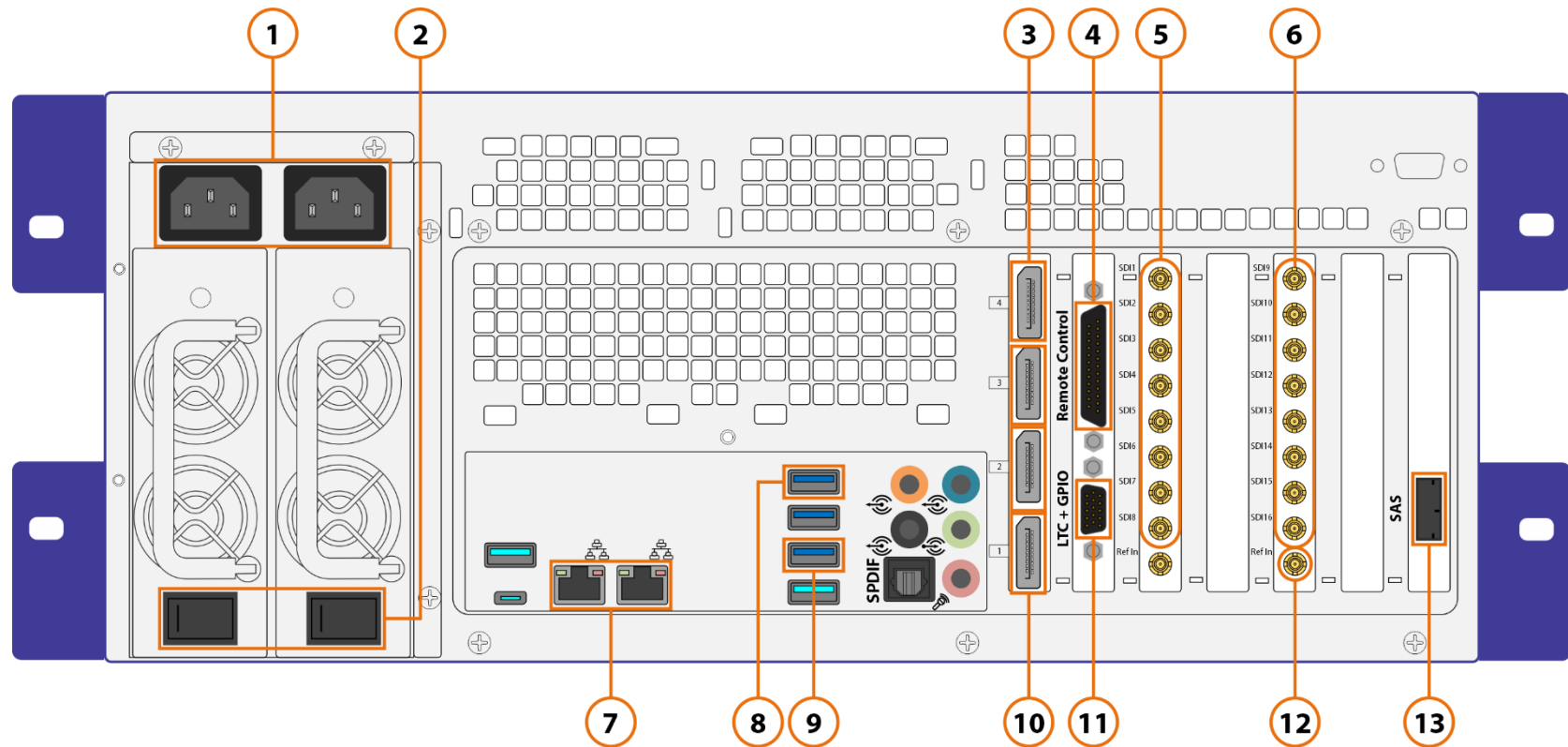
13 – Ref In – Synchronization (BNC);

14 – GPIO (DB-9);

15\* – SAS.

\* – optional

## Dominator AT/3G

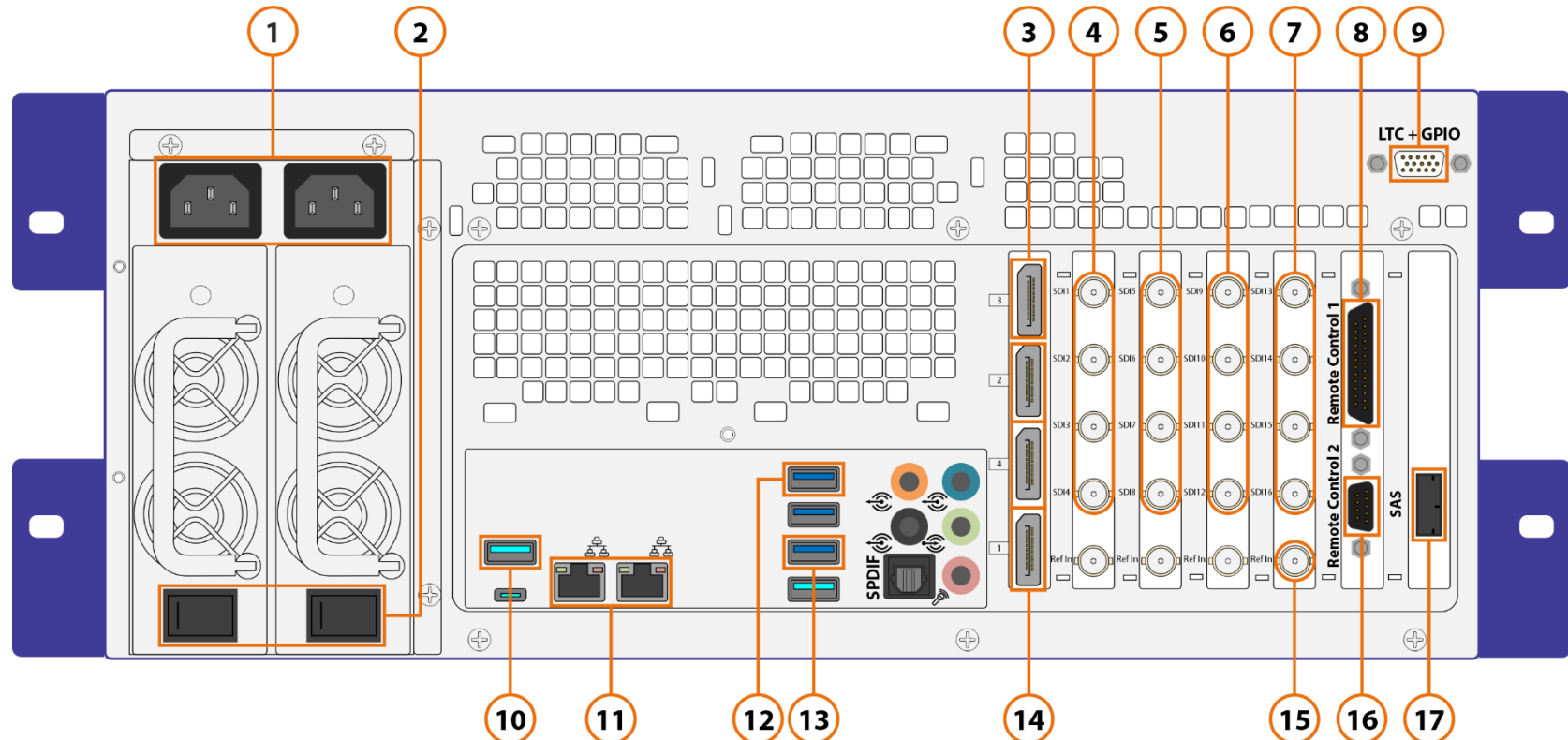


- 1 – Power AC 110/220V 60/50Hz;
- 2 – Power ON/OFF switches;
- 3 – Main Monitor – for Main Interface / Multiviewer (DisplayPort);
- 4 – Remote Control (DB-25);
- 5 – SDI video Inputs/Outputs 1...8 (DIN1.0/2.3);
- 6 – SDI video Inputs/Outputs 9...16 (DIN1.0/2.3);
- 7 – 10 GbE Network – for additional replay workplaces\* – Remote Control via LAN (RJ-45 Ports);

- 8 – Mouse (USB Port);
- 9 – Keyboard (USB Port);
- 10 – Additional Monitor – for Multiviewer / Game Analyzer / Preview (Display Port);
- 11 – LTC + GPIO – Linear Time code Input / GPIO (DHS-15);
- 12 – Ref In – Synchronization (DIN1.0/2.3);
- 13 – SAS.

\* – optional

## Dominator AT/12G

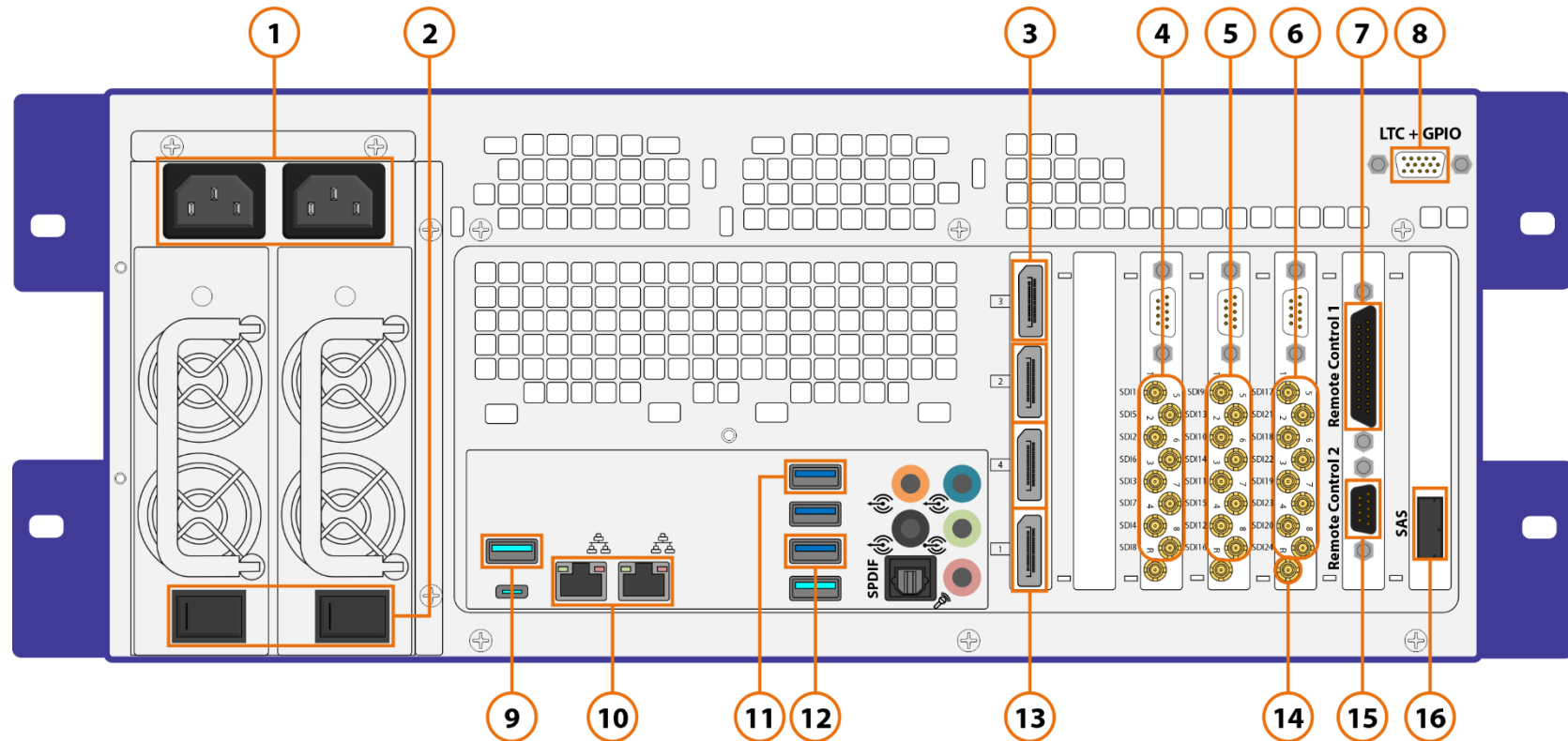


- 1 – Power AC 110/220V 60/50Hz;
- 2 – Power ON/OFF switches;
- 3 – Main Monitor – for Main Interface / Multiviewer (DisplayPort);
- 4...7 – SDI video Inputs/Outputs 1...16 (BNC);
- 8 – Remote Control 1 (DB-25);
- 9 – LTC + GPIO – Linear Time code Input / GPIO (DHS-15);
- 10\* – DMR™ External Box (USB 3.1 Port);

- 11 – 10 GbE Network – for additional replay workplaces\* – Remote Control via LAN (RJ-45 Ports);
- 12 – Mouse (USB Port);
- 13 – Keyboard (USB Port);
- 14 – Additional Monitor – for Multiviewer / Game Analyzer / Preview (Display Port);
- 15 – Ref In – Synchronization (BNC);
- 16\* – Remote Control 2 – for additional workplace (DB-9);
- 17 – SAS.

\* – optional

## BlackJack AT/4K



- 1 – Power AC 110/220V 60/50Hz;
- 2 – Power ON/OFF switches;
- 3 – Main Monitor – for Main Interface / Multiviewer (DisplayPort);
- 4...6 – SDI video Inputs/Outputs 1...24 (DIN1.0/2.3);
- 7 – Remote Control 1 (DB-25);
- 8 – LTC + GPIO – Linear Time code Input / GPIO (DHS-15);
- 9\* – DMR™ External Box (USB 3.1 Port);

- 10 – 10 GbE Network – for additional replay workplaces\* – Remote Control via LAN (RJ-45 Ports);
- 11 – Mouse (USB Port);
- 12 – Keyboard (USB Port);
- 13 – Additional Monitor – for Multiviewer / Game Analyzer / Preview (Display Port);
- 14 – Ref In – Synchronization (DIN1.0/2.3);
- 15\* – Remote Control 2 – for additional workplace (DB-9);
- 16 – SAS.

\* – optional