The EXE-VSR, with 46Tb/s of switching capacity in 40RU, revolutionizes the facility router. With 2304 10GbE ports, the EXE provides unmatched flexibility and scalability for video transport over IP. Using SMPTE-2022-6, the EXE non-blocking switch fabric supports up to 13,800 uncompressed HD-SDI signals. When compression technology (JPEG-2000, H.264, or MPEG-2) is utilized, the number of video stream can reach the millions. With the combination of Evertz SDVN and the EXE as the core, facilities become more agile to handle new HD/SD services, new delivery platforms and new video formats [i.e. Ultra HD 4K and 8K].
Simple Maintenance
The advanced design of the EXE-VSR ensures that all active components, including line cards, crosspoint modules, frame controllers, cooling fans and power supplies, are accessible from the front of the frame and can be hot swapped at any time for maintenance.

Comprehensive Control
The EXE-VSR provides comprehensive connectivity to suit the most demanding installations. The internal frame controllers provide complete connectivity to any number of remote control panels and 3rd party control devices such as automation systems via Ethernet ports. Using MAGNUM, as the SDVN orchestration and control system, the EXE-VSR makes system installations with advanced tie-lines, automated pathfinding, and advanced control surfaces easy to implement and manage.

Independent Monitoring
EXE-VSR provides extensive signal monitoring of the line cards, power supply voltages, interior temperatures and fan speeds. All monitored data is available through SNMP for facility-wide monitoring systems such as Evertz VistaLINK PRO.

Outstanding Redundant Protection
The EXE-VSR uses the successful EOX (Evertz 3G/HD/SDI Enterprise Router) as the ultimate design in terms of system availability. The EXE-VSR architecture contains redundant protection for all of the critical system elements. The architecture provides redundant cross-point configurations, redundant frame controllers, external redundant load sharing power supplies, redundant easy access cooling fans and a dedicated monitoring bus that is independent of the system cross-points. In the event of a failure, manual or automatic re-routing of signals on an output-by-output Path-by-Path basis is fully supported by the system software.

Using the EXE-VSR monitoring capabilities, output quality can be verified prior to switching to redundant signal paths.