

GT 6000 series Videowall processor

Ideal for medium to large sized installations such as surveillance rooms, integrated command & control centers, presentation auditoriums, sports & entertainment venues, and digital signage applications.

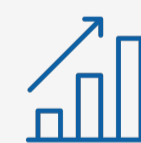
- Industrial 6RU rack-mount chassis (up to 4 video walls)
- Minimum 12 universal inputs; scalable up to 56 HD / 28 4K
- Minimum 8 concurrent live source display
- Up to 20 HD / 4K outputs (4K @ 60Hz)
- Multi-window, multi-source processing
- Independent resize, crop, and layout control
- HD / Full HD / 4K decoding support
- Ultra-low latency (≤ 50 ms)
- Redundant CPU & hot-swappable 1+1 PSU
- High-performance configuration (i9, 32GB RAM, 1TB SSD, 8GB GPU)
- Open API with centralized control & remote management
- Compatible with LCD, LED, cubes & projectors



GT 6000 Series processors are advanced video wall controllers designed for medium to large-scale control room and visualization environments, delivering reliable multi-source processing and seamless display management.



Powered by high-speed processing architecture, the GT 6000 Series ensures ultra-low latency performance, smooth multi-window rendering, and real-time 4K visualization across complex video wall deployments.



With modular I/O expansion, redundant architecture, and cross-compatible configurations, the GT 6000 Series provides a secure, scalable, and future-proof solution for mission-critical operations

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Universal Inputs	Minimum 12 universal inputs supporting HDMI 1.3/1.4/2.0, DVI-I, SDI, HDBaseT, IP (RJ45 decoding) with capability up to 56 HD or 28 4K input channels. System shall support decoding up to 16 channels of 4K@30Hz via IP input cards and must be capable of displaying minimum 8 concurrent live sources simultaneously.
Video Outputs	Minimum 8 digital outputs, expandable up to 20 HD/4K outputs per chassis. Output interfaces shall include HDMI (up to 2.0 – 4K@60Hz), DVI-I, SDI, HDBaseT (Cat5/6 up to 70m). Each output shall support 3840×2160 @ 60Hz, backward compatible with FHD (1920×1080) / WUXGA (1920×1200).
Video Processing	Advanced multi-window and multi-source display capability with independent window resizing, positioning, cropping, layering, and flexible wall geometry management. Support for custom resolutions, warp & blend for projector-based walls, and RGB 4:4:4 color processing.
Video Decoding	Support for HD (1920×1200@60Hz), Full HD (1920×1080@60Hz), and 4K UHD (3840×2160@60Hz). IP decoding capability up to 4K@30Hz per channel, scalable multi-view configurations (2×2, 3×3, 4×4 layouts).
Latency	Ultra-low latency processing with ≤ 20 ms source switching, window creation ≤ 16 ms, ensuring overall input-to-wall latency ≤ 50 ms.
Processor (CPU)	High-performance processing architecture with redundant CPU boards. For PC-based configuration (if required): Intel® Core i9 (13th/14th Gen) or higher, 64-bit architecture, base frequency ≥ 2.8 GHz, integrated or dedicated GPU acceleration.
Graphics (GPU)	Dedicated professional graphics processing (where PC architecture is proposed) such as NVIDIA RTX / Quadro / A-Series with minimum 8 GB VRAM for real-time rendering and visualization.
RAM	Minimum 32 GB DDR4/DDR5 RAM, expandable up to 64 GB or higher (for PC-based system configuration).
Storage	Minimum 1 TB SSD (NVMe preferred) for OS, application software, and system logs (where applicable).

Operating System	Either: 1) Embedded OS-less appliance architecture (virus-free, no update dependency) OR 2) 64-bit Windows 10/11 IoT Enterprise / Linux-based OEM OS optimized for control room operations.
Mounting	Industrial-grade 6RU rack-mount chassis, suitable for standard 19-inch racks.
Control & Management	Centralized control platform with Open API (TCP/IP & RS232) support. Features shall include layout customization, preset recall, remote configuration, remote ON/OFF capability, EDID management, HDCP 1.4 & 2.2 compliance, and third-party integration capability.
Power Supply	Redundant (1+1) hot-swappable power supplies, ensuring high availability and uninterrupted operation.
Environmental Compliance	Operating temperature: 0°C to 50°C; Humidity: <90% non-condensing.
Accessories	Industrial keyboard and optical mouse (for PC-based control configuration), along with necessary control interfaces.
Cables & Connectivity	All necessary HDMI / DVI / SDI / HDBaseT / LAN cables and connectors required for integration with display panels shall be supplied.
Display Compatibility	Compatible with LCD, LED, Video Cubes, Projectors, and custom display resolutions.
Compliance	ISO / RoHS / CE / FCC standards compliant.

