











MINICOM
digital signage

ScreenGate™

IP Streaming

media

ScreenGate™
IP Streaming

Overview

To respond to the ever growing needs of the digital signage industry, Minicom Digital Signage is offering a solution which allows maximizing network value by leveraging the inherent benefits of IP technology with its pervasiveness, its scalability and its cost-effectiveness - **ScreenGate™ IP Streaming solution**.

ScreenGate IP Streaming solution provides media distribution over IP with highly scalable HDMI and DP distribution over a LAN and a WAN network, featuring low bandwidth consumption and flexible interoperability. When used with the **ScreenGate Management Gateway,** the solution offers both display management and media delivery performance monitoring.

ScreenGate IP Streaming: unique answers to challenges

Streaming solution based over IP Compared with traditional approaches to delivering content to digital signage screens, ScreenGate IP Streaming offers significant advantages:

- It is IP-based
- It leverages the extensive and growing infrastructure of digital networks
- It uses the hardware and software products that are designed to operate on those networks

Cost effective and scalable

Because IP is a standard industry, ScreenGate IP Streaming's initial installation is both less costly and less time-consuming. Any additional IP - compatible screens can simply be attached to the network. Interoperability and flexibility are guaranteed – providing simple and cost-effective scalability as a network grows.

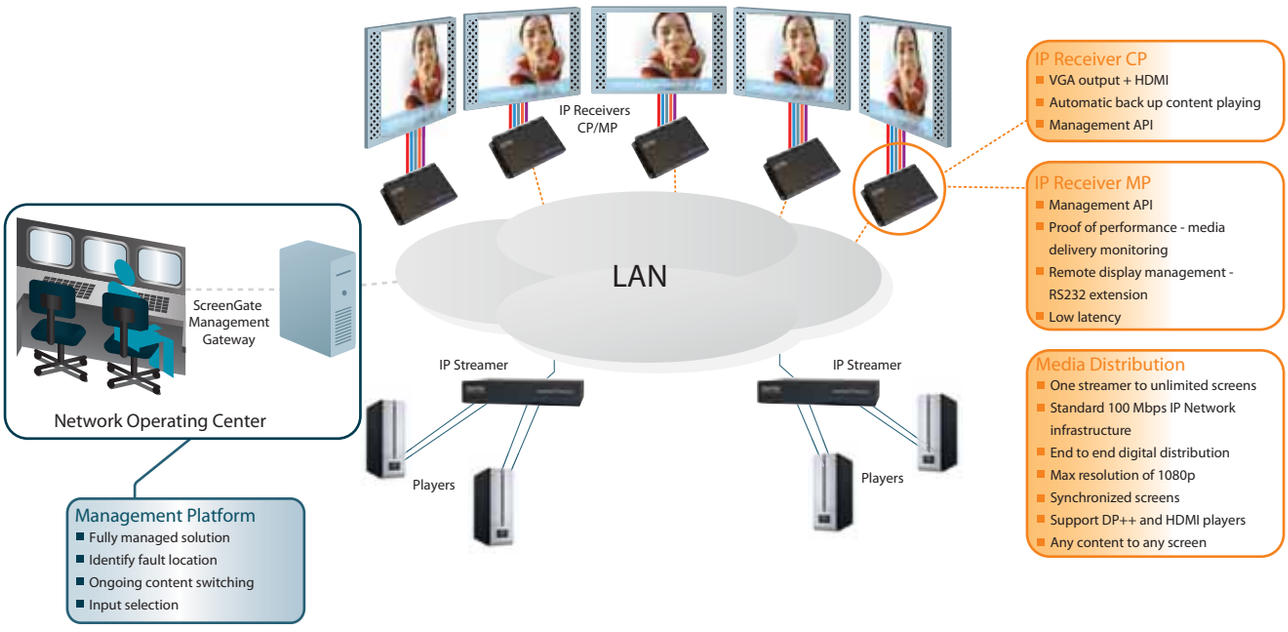
Uses existing network infrastructure

ScreenGate IP Streaming is taking advantage of the existing network infrastructure, as well as the technologies designed to maximize the quality of delivered content while minimizing bandwidth consumption. It also allows access to a growing number of sophisticated network management tools.

ScreenGate IP Streaming + SMG Solution

When complemented with the ScreenGate Management Gateway (SMG), Screengate IP Streaming offers a fully managed solution which monitors the network's performance from end to end, identifying failures and fault locations and providing alerts for immediate action. SMG also allows ongoing content switching and input selection.

ScreenGate IP Streamer Over the LAN

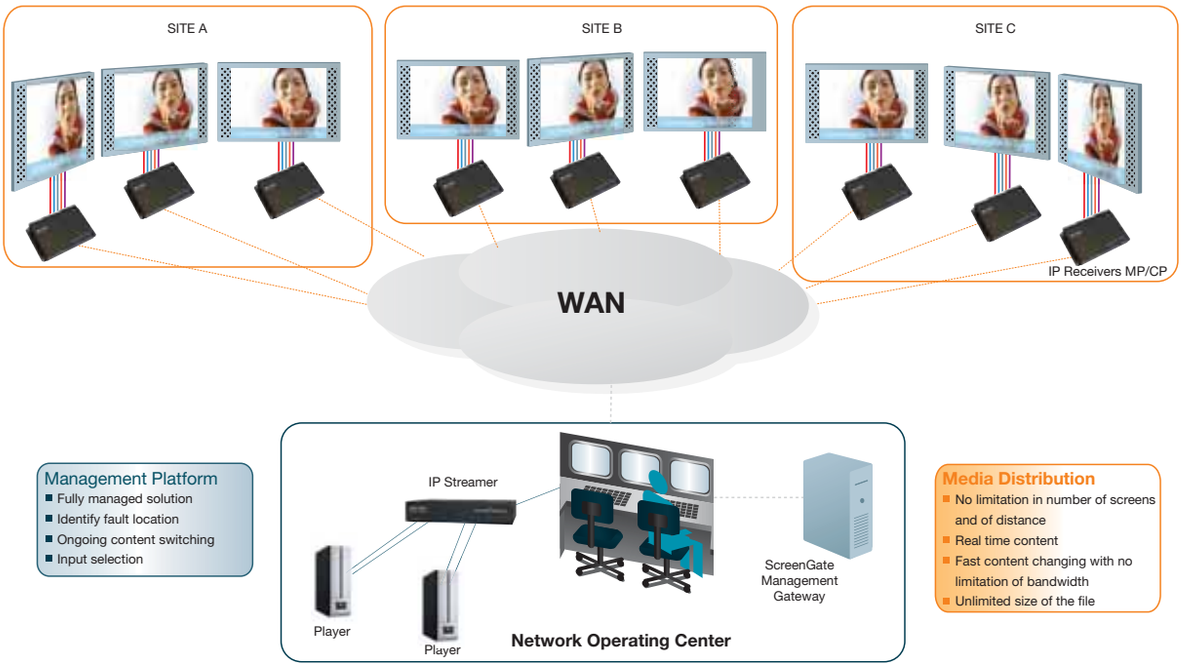


The Components of the ScreenGate IP Streaming Solution

ScreenGate IP Streaming comprises two key elements: the ScreenGate IP Streamer and the ScreenGate IP Receiver. Minicom Digital Signage offers two models of ScreenGate IP Receivers:

ScreenGate IP Receiver MP	ScreenGate IP Receiver CP
• Uses the H.264 codec • Supports for both HDMI and VGA output • Is designed for more rigorous task of media processing • Provides media delivery analytics • Management API provides an interface that allows sensors on the screen – such as rain, light level or temperature – to cause the player to dynamically change content	• Designed for processing content, streamed using the highly efficient H.264 codec • Wireless support can be optionally integrated for maximum installation flexibility • Content on screen support is also an option • Easy to maintain • Easy to upgrade • Low latency and benefiting from a management API • Provides proof of performance via media delivery monitoring • Plays locally-stored content in the event of network failure
When Used with SMG	When Used with SMG
• Proof of display (via watermarking) • Full screen control (on/off) • Temperature monitoring, allowing input to be changed if appropriate	• Layout feature that allows the addition of text on top of content • Local content management in parallel with central CMS • Remote video on/off and remote maintenance

ScreenGate IP Streamer over the WAN



ScreenGate IP Streaming Solution delivers content to multiple sites via either LAN or WAN

Over the LAN	Over the WAN
• Supports full HD 1080p streaming for the highest possible content quality • Uses the standard 100 Mbits/second IP network infrastructure • Supports synchronized screens and DP++ and HDMI players • Provides a dual player input for continuous playback, while a local player monitor port allows for presenter/administrator monitoring • Monitors remote players - when used in conjunction with SMG	• Supports full HD 1080p streaming for the highest possible content quality • No limit in the number of screens it can support • No limit in the distance of those screens • Content is delivered in real time • Ability to initiate fast content changes without bandwidth limitation and with no limit to the size of file

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