



ERIC MORTARA FIRE STATION | CASE STUDY

AtlasIED Atmosphere Enhances Emergency Communications at Erik Mortara Fire Station

Located in Aosta, Italy, the Erik Mortara Barracks serves as the regional headquarters for the Aosta Valley Fire Brigade, supporting the emergency response operations that protect communities throughout the region. The barracks represent both an operational center and a tribute to the dedication and service of the firefighters who respond to emergencies every day.

As a continuously active emergency facility, the barracks requires communication systems that deliver immediate, reliable, and clearly intelligible announcements across a variety of environments, from offices and operational areas to vehicle garages and outdoor spaces. The existing audio system at the barracks required an upgrade that could better support daily announcements, operational messaging, and emergency alerts while providing greater control across the building's different areas. To improve the flexibility and performance of its existing audio infrastructure, the facility implemented an updated multi-zone paging and announcement system built around the [AtlasIED Atmosphere](#) platform.

AtlasIED's Atmosphere platform is a state-of-the-art audio control system designed to enhance communication and improve the ambiance in public spaces. Simple to deploy and use but powerful in capabilities, Atmosphere combines digital audio processors, amplifiers, graphical user interfaces, programming



ATMOSPHERE PLATFORM IS A STATE-OF-THE-ART AUDIO CONTROL SYSTEM DESIGNED TO ENHANCE COMMUNICATION AND IMPROVE THE AMBIANCE IN PUBLIC SPACES.

software, and controls to set a new operational and performance standard for digital audio systems.

An [Atmosphere AZMP8-DW](#) was well-suited to the barracks' needs. The AZMP8-DW is an eight-zone digital signal processor and the heart of an Atmosphere audio control system. A unique on-wall form factor allows the AZMP8-DW to be conveniently mounted on a wall, eliminating the need for a traditional equipment rack. The integrated locking cabinet includes space for peripheral devices such as a network switch or a music streamer.

A built-in message player, virtual wall controllers, learning ambient noise sensing, Tilter Filter™, auto-gain, GPIO, room combine, and more make the AZMP8-DW a processing powerhouse.

Programming is simple via an on-board web interface optimized for common use cases. The control interface is device-agnostic, responsive, and meticulously designed to deliver an ideal user experience without sacrificing design freedom. In addition to Ethernet, built-in Wi-Fi allows tablets and other control devices to connect directly to the AZM8 via rights-based access.

The upgraded system divides the barracks into eight independent audio zones, allowing staff to manage volume levels and announcements according to the specific requirements of each area.

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THE AZMP8-DW IS AN EIGHT-ZONE DIGITAL SIGNAL PROCESSOR AND THE HEART OF AN ATMOSPHERE AUDIO CONTROL SYSTEM.



Paging throughout the barracks can be initiated from any of the three [Atmosphere X-ZPS](#) zoned paging stations installed in the Operations Room. Equipped with a full-color touchscreen, the paging stations offer zone paging, all-call, and custom group paging, along with a high-quality goose-neck microphone. The X-ZPS also served as a system controller for volume, source selection, message recall, and more.

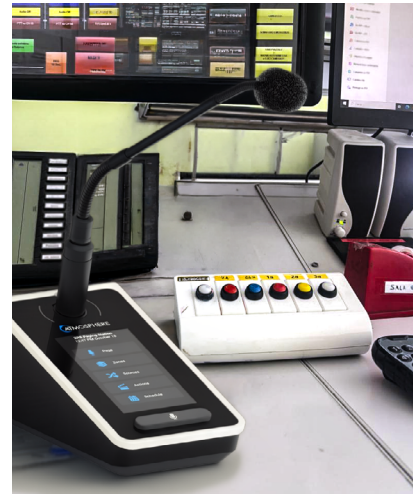
Approximately 100 wall-mounted 100V loudspeakers were installed throughout the interior, while horn loudspeakers provide coverage in outdoor courtyards and vehicle garages.

By replacing a legacy audio system with AtlasIED Atmosphere, the Erik Mortara Barracks gained a more structured and responsive communication platform designed around the needs of emergency personnel.

The Power Sharing capability of the Atmosphere amplifiers allows available power to be distributed efficiently across zones.

The completed installation provides firefighters with clearer announcements, improved zone control, and faster access to critical messages. The combination of multi-zone distribution, integrated paging, and automation creates an audio system that supports both everyday operations and emergency

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PAGING THROUGHOUT THE BARRACKS CAN BE INITIATED FROM ANY OF THE THREE ATMOSPHERE X-ZPS ZONED PAGING STATIONS INSTALLED.

AtlasIED PRODUCTS USED IN THIS PROJECT INCLUDE:

[Atmosphere AZMP8-DW](#)

[Atmosphere X-ZPS](#)

