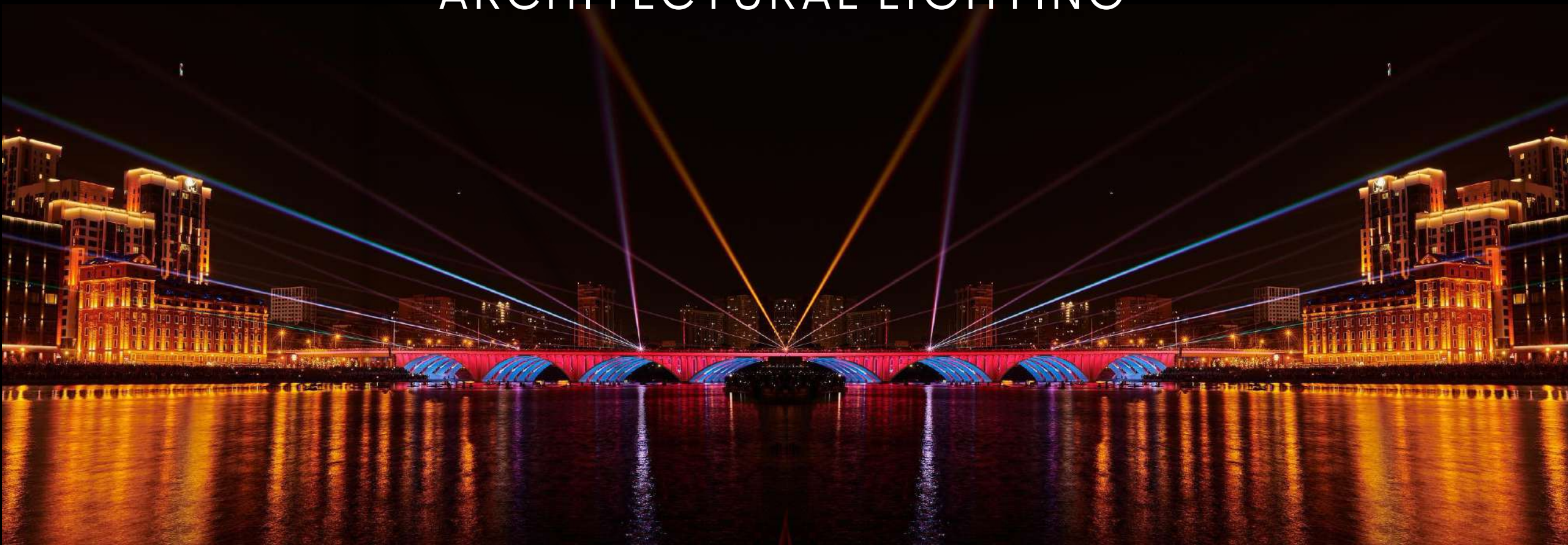
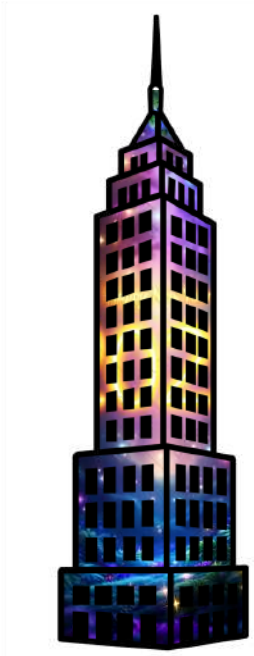
ARCHITECTURAL LIGHTING

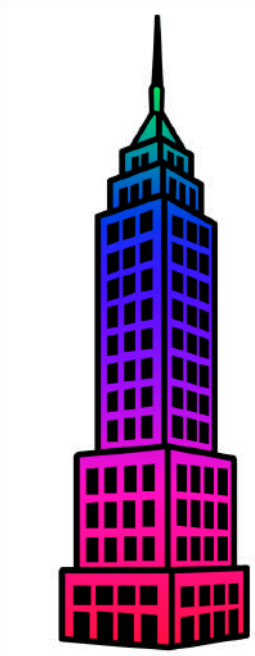


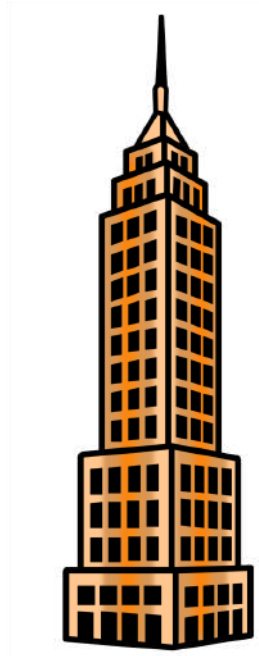
Smart Architectural Illumination by DITRA

Comprehensive Lighting Control Solutions

We provide a full range of control solutions tailored to different lighting scenarios — from large-scale multimedia shows to dynamic RGB effects and precise static or tunable architectural lighting. Each solution is optimized for seamless integration, high reliability, and creative flexibility.







Show & Media Solution

Advanced control for multimedia and architectural shows, integrating video content, lighting effects, and synchronized scenarios for large-scale events and installations.

Dynamic RGB Solution

Flexible RGB control for creating vivid color-changing effects such as waves, fades, and transitions, ideal for facades, bridges, and decorative lighting projects.

Static & Tunable Solution

Reliable static lighting control with the ability to adjust brightness and color temperature, perfect for architectural accents and ambient illumination.

Smart Architectural Illumination by DITRA

Show & Media Lighting solution

When we talk about a media solution, we mean displaying dynamic video content with synchronized audio and special effects. The **DITRA ArchiCore Media controller** makes this possible by storing and playing back lighting scenarios from its built-in flash memory, controlled remotely. With its ArtNet output, the controller can feed multiple DMX universes, enabling precise control of any DMX-compatible fixture across large-scale installations.

Key features:

Versatile Fixture Control

Control luminaires supporting SPI, standard LED, and DMX protocols, with compatibility across multiple driver types.

High-Speed Real-Time Playback

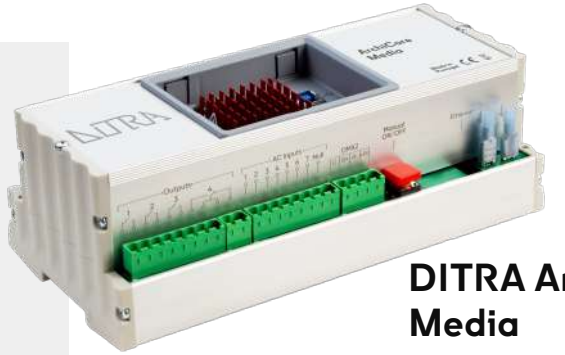
Real-time content playback with support for high-speed lighting data streaming

Unified Audio & Video Synchronization

A single controller handles both audio and video synchronization, ensuring seamless coordination across all visual and sound elements.

Built-In Media Server Functionality

Eliminates the need for an external media server – the controller stores and plays programmed lighting, audio, or video scenarios locally, even without internet or CMS connection, while still being easily managed via a simplified CMS interface.



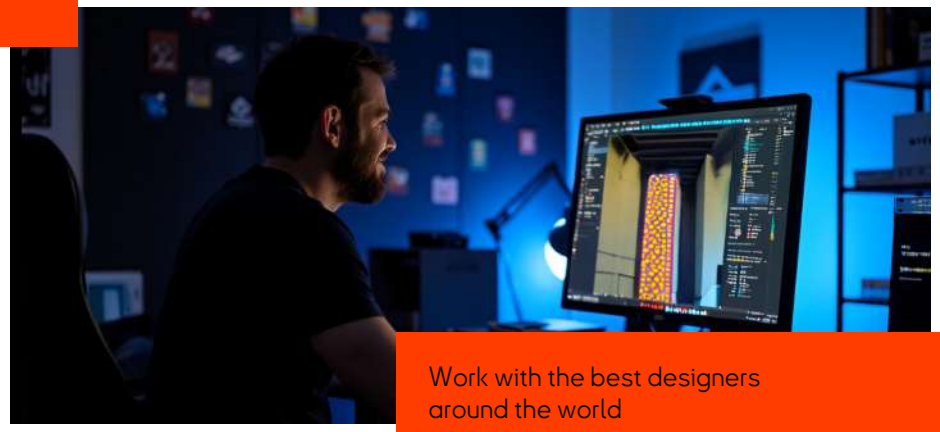
DITRA ArchiCore Media



Highlighting the functional purpose of the building

Creating spaces that become points of attraction for city residents





Work with the best designers around the world

Smart Architectural Illumination by DITRA

Dynamic RGB Lighting solution

By dynamic lighting we refer to installations designed to create fluid, evolving visual effects such as waves, fades, and color transitions, bringing depth and movement to architectural spaces.
The **DITRA ArchiCORE** and **DITRA ArchiCORE Node controllers** ensure precise execution and seamless playback of these captivating scenarios.

Key features:

Seamless Light Transitions

Smooth fades, transitions, and color temperature shifts

Creative Dynamic Effects

Programmable dynamic effects like waves, shimmer, and ambient motion

Flexible Trigger Control

Automated or manual triggering via schedules, sensors, or system events

Intuitive Scenario Management

User-friendly software for easy scenario creation and controller configuration

Standalone DMX Playback

Scenarios and schedules are configured via the CMS platform, and once saved to the controller, playback continues autonomously even without a CMS connection.



DITRA ArchiCORE



DITRA ArchiCORE Node

Creation of various scenarios for dynamic lighting of any landmarks



Control over scenario changes and system monitoring from a central dispatch center



Smart Architectural Illumination by DITRA

Static & Tunable Architectural solution

When we talk about static lighting, we refer to solutions operating on the DALI protocol.
The **DITRA DALI Gate Rail** sends DALI signal, providing precise control over brightness and color temperature for façade and architectural lighting.

Key features:

Stable Lighting Output

Consistent and uniform illumination for architectural spaces, with fixed intensity or smoothly adjustable output to maintain visual comfort and highlight design features without sudden changes.

Automated Time Control

Fully programmable time-based automation, using daily schedules or astronomical clocks, to ensure the lighting adapts automatically to seasonal changes and operating hours.

Basic Dimming & CCT

Smooth dimming from full brightness to soft ambient light, combined with basic yet effective control of color temperature to match the desired atmosphere and architectural mood.

Simplified System Setup

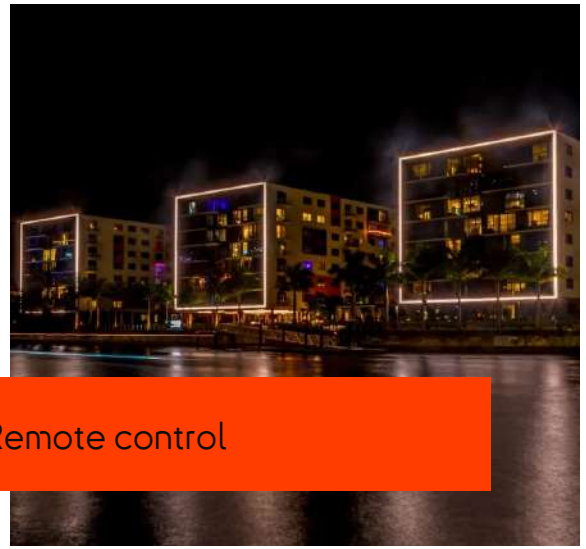
Minimal system complexity with intuitive configuration, enabling quick commissioning and reduced installation time while ensuring long-term operational reliability.



DITRA DALI Gate Rail

Color temperature setting





Remote control



Adjusting the brightnes of the lamps

Schematic diagrams of architectural solutions

Create scenarios
of architectural lighting using video, color transitions, brightness fades and more

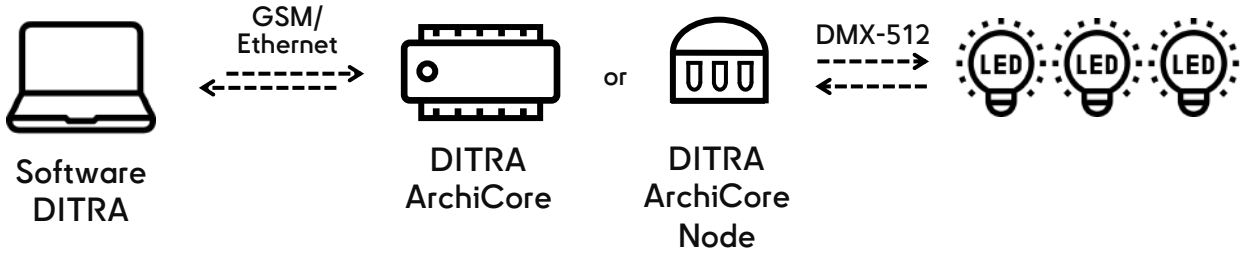
Monitoring and control
of architectural lighting systems and their energy consumption

Remote management
of architectural lighting systems with scheduling and real-time control

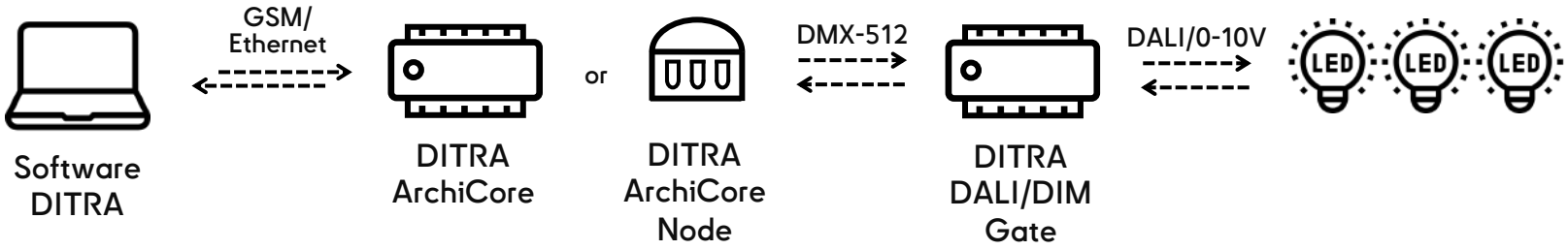
Notification
of irregularities and logging of fault causes

Planning and tracking
of maintenance activities

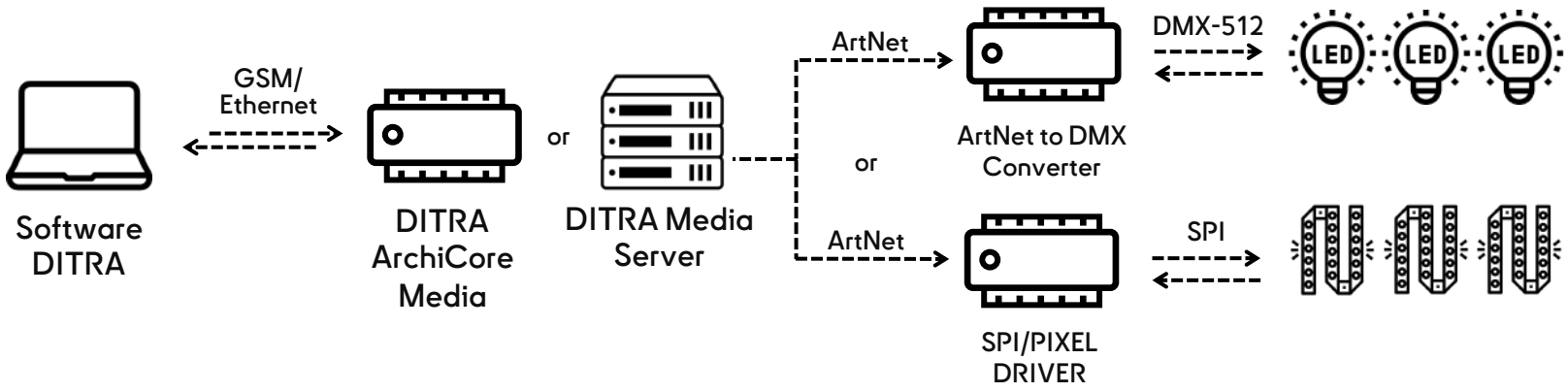
Schematic diagram of Dynamic solution



Schematic diagram of Static & Tunable solution



Schematic diagram of Media solution



Smart Architectural Illumination by DITRA

Broad Application Across Lighting Segments

Our control systems are designed to adapt to a wide range of lighting projects – from festive and decorative setups to complex architectural forms and landscape installations. Regardless of the scale or environment, our solutions ensure precise control, reliability, and seamless integration with existing infrastructure.



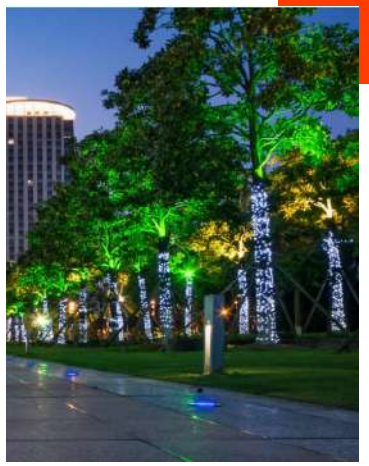
MEDIA FACADE LIGHTING

Transform cityscapes with dynamic media façades that captivate attention, elevate urban identity, and deliver impactful visuals with energy-efficient technology



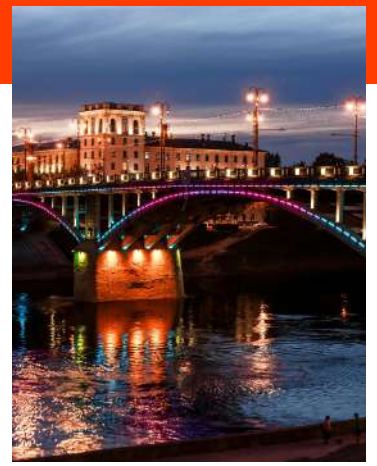
DYNAMIC FACADE LIGHTING

Bring architecture to life with dynamic lighting systems that create captivating motion effects, boost tourism, enhance civic pride, and reinforce a city's unique identity



LANDSCAPE LIGHTING

Enhance outdoor spaces with landscape lighting that highlights natural beauty, adds depth and ambiance, and creates inviting environments for communities to enjoy



FESTIVE LIGHTING

Transform public spaces with festive lighting solutions that create enchanting atmospheres, elevate community spirit, and make celebrations unforgettable



ARCHITECTURAL FORMS LIGHTING

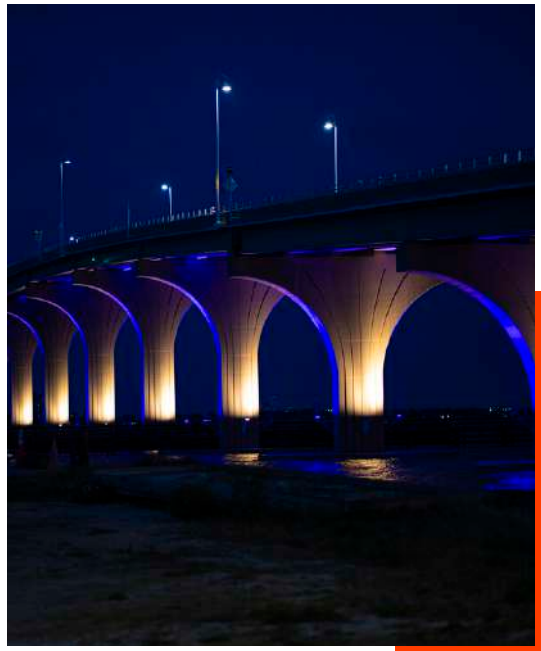
Illuminate architectural forms with precision lighting solutions that enhance design details, create striking visual impact, and elevate the aesthetic appeal of any structure



EQUIPMENT

State-of-the-art lighting control devices, ensuring seamless integration and reliable performance within a unified control system





ARCHICORE MEDIA CENTRAL CONTROLLER

For Media Facade Architectural Illumination



ArchiCORE MEDIA

Centrall controller with Media Playback Capability

Versatile central controller for managing architectural lighting and playing audio/video content. Designed for both functionality and durability, it offers extensive connectivity and control features in a robust aluminum housing with IP23 protection, suitable for outdoor use.

Key features:

Control and Connectivity:

- 4 outputs for independent lighting group control
- 7 inputs for acknowledgment signals
- Support for 2 DMX512 streams and up to 256 ArtNet streams
- Interfaces: RS-485 (MODBUS), CAN, and Ethernet (2 ports)
- Wireless communication via built-in GSM/3G/4G modem with dual SIM support
- GPS/GLONASS module for geolocation and precise timekeeping

Media and Storage

- HDMI, RCA outputs, and SD card support (up to 16 GB)
- Software integration with DITRA Scenario Module

Reliability and Power:

- Operates at 100-250V AC and remains functional up to 305V
- Built-in backup power supply
- Aluminum housing with permanent laser engraving

Installation and Maintenance:

- DIN-rail mounting (12 modules)
- Remote firmware updates

ARCHICORE CENTRAL CONTROLLER

For RGB/RGBW Dynamic Architectural Illumination



ArchiCORE

Cabinet controller for architectural and artistic lighting of the DITRA system, featuring 4 relay outputs, built-in DMX512 ports, an integrated GSM/3G/4G modem with GLONASS/GPS support, and an Ethernet interface

Key features:

- Supports 2048 lighting channels with precision and simplicity
- Real-time dynamic scenario and setting adjustments
- RS-485 port for direct electric meter and sensor data access
- Proactive electrical fault detection for system reliability
- Surge-resistant with voltage resilience up to 305 V
- Non-volatile memory for critical configuration retention



ArchiCORE Node

A compact, sealed control node for architectural and artistic lighting of the DITRA system, featuring 1 relay output, 1 DMX512 port, an integrated GSM/GPRS/3G/4G modem, and a GLONASS/GPS module

Key features:

- Controls up to 512 channels for intricate lighting displays
- Creates and synchronizes personalized DMX scenarios effortlessly
- GPS-driven precision for device synchronization
- Remote configuration via 2G/3G/4G networks
- Non-volatile memory protects setups from power interruptions
- Handles electrical loads from 1-1000 W for versatile lighting designs

CONVERTERS ArtNet ↔ DMX

For Architectural Illumination



ArtGATE Shield

Outdoor-ready Art-Net/sACN to DMX converter

The ArtGATE Shield is an IP65-rated converter with up to four configurable DMX512 ports. It supports Art-Net, sACN, KiNet, and RDM, features dual Ethernet ports, PoE or AC power with surge protection, and can store static scenes for standalone operation.



ArtGATE Rail

DIN-Rail Ethernet to DMX Converter

The ArtGATE Rail is a compact DIN-rail node with up to eight configurable DMX512 ports. It supports Art-Net, sACN, KiNet, and RDM, offers PoE or AC power, dual Ethernet ports, galvanic isolation, and multiple merging modes for flexible lighting control.



ArtGATE Guard

Industrial DMX ↔ Ethernet Gateway

The ArtGATE Guard features four configurable DMX512 ports, supports Art-Net, sACN, KiNet, and RDM, and includes dual Ethernet ports with PoE or AC power. It offers merging modes, trigger inputs, and static scene playback in an IP44-rated metal housing.



DALIGate RAIL

DIN-Rail DALI Lighting Gateway

The DALI-Gate Rail is a compact DIN-rail module that converts DMX signals into DALI control, enabling seamless integration of DALI-compatible luminaires. It supports precise individual control and status monitoring of DALI fixtures, and communicates with a central controller—typically via RS-485—for configuration and diagnostics.

SPLITTERS DMX

For Architectural Illumination



Splitter Duo RAIL

Two-channel DMX512 signal splitter for DIN rail mounting with RDM support

DIN-rail DMX/RDM splitter with 2 inputs and 8 outputs. Supports DMX512 and RDM, provides galvanic isolation, LED status indication, and reliable operation in control cabinets.



Splitter Duo SHIELD

Two-channel DMX512 signal splitter in weatherproof outdoor design with RDM support

The Splitter DUO Shield is an IP65-rated, outdoor-ready splitter with 1–3 DMX inputs and up to 5 outputs. It supports DMX512, RDM, Art-Net, and sACN, features galvanic isolation, ensuring reliable performance in harsh environments.



Splitter Duo GUARD

Two-channel DMX512 signal splitter designed for indoor professional lighting systems with RDM support

The Splitter Duo Guard features 2 DMX inputs and 4 galvanically isolated outputs, configurable as one 1-to-5 splitter or two 1-to-2 splitters. It supports DMX512 and RDM, offers automatic input backup, LED status indicators, and an IP44 metal housing for reliable indoor use.

LED DRIVERS

For Architectural Illumination



LEDGATE Rail

DIN-Rail DMX LED Driver

The LEDGate Rail is a compact, DIN-rail module with 4 or 8 PWM outputs. It accepts DMX512/RDM input, provides smooth, flicker-free dimming with selectable 8- or 16-bit resolution, and includes short-circuit protection on each channel. The device features galvanically isolated DMX ports, passive cooling, and operates from a 12–36 VDC power supply.



LEDGATE Nano

Compact DMX LED Driver

The LEDGATE Nano is an ultra-compact driver offering 2 or 4 PWM channels with individual short-circuit protection. It supports DMX512 and RDM, providing smooth, flicker-free dimming in 8- or 16-bit resolution. Designed for seamless integration into tight spaces, it connects directly to low-voltage LED loads (12–24 V DC) and features passive cooling, rotary switch or remote configuration, and silent operation.



LEDGATE Slave Nano

Compact DMX Expansion Module

The LEDGATE Slave Nano is an ultra-compact 4-channel PWM driver designed to expand the capabilities of LEDGATE Nano, Wireless Nano, or Bare devices. It supports DMX512 and RDM, offers flicker-free 8- or 16-bit dimming, and includes independent short-circuit protection per output. Powered via 12–24 V DC, it's perfect for scaling up LED control in embedded or OEM lighting setups.



DALIGate RAIL

DIN-Rail DALI Lighting Gateway

The DALI-Gate Rail is a compact DIN-rail module that converts DMX signals into DALI control, enabling seamless integration of DALI-compatible luminaires. It supports precise individual control and status monitoring of DALI fixtures, and communicates with a central controller—typically via RS-485—for configuration and diagnostics.

PIXEL STRIP DRIVERS

For Architectural Illumination



PixelGATE Shield

Outdoor Art-Net/sACN to SPI Pixel Controller

The PixelGATE Shield is an IP65 controller converting Art-Net or sACN to SPI across 8 outputs for up to 2,730 RGB pixels. It supports various SPI LED types, has dual Ethernet ports, and is configured via a web interface for media façades and pixel installations.



PixelGATE Rail

DIN-Rail Pixel Controller

The PixelGATE Rail converts Art-Net or sACN to SPI, controlling up to 2,730 RGB pixels via 8 outputs. It supports various SPI drivers, has dual Ethernet ports, and offers easy configuration through a web interface in a compact IP20 DIN-rail design.

WIRELESS TRANSCIEVERS

For Architectural Illumination



RadioGate SHIELD

Wireless transceiver with dust and moisture protection for DMX stream transmission via 2.4 GHz radio channel

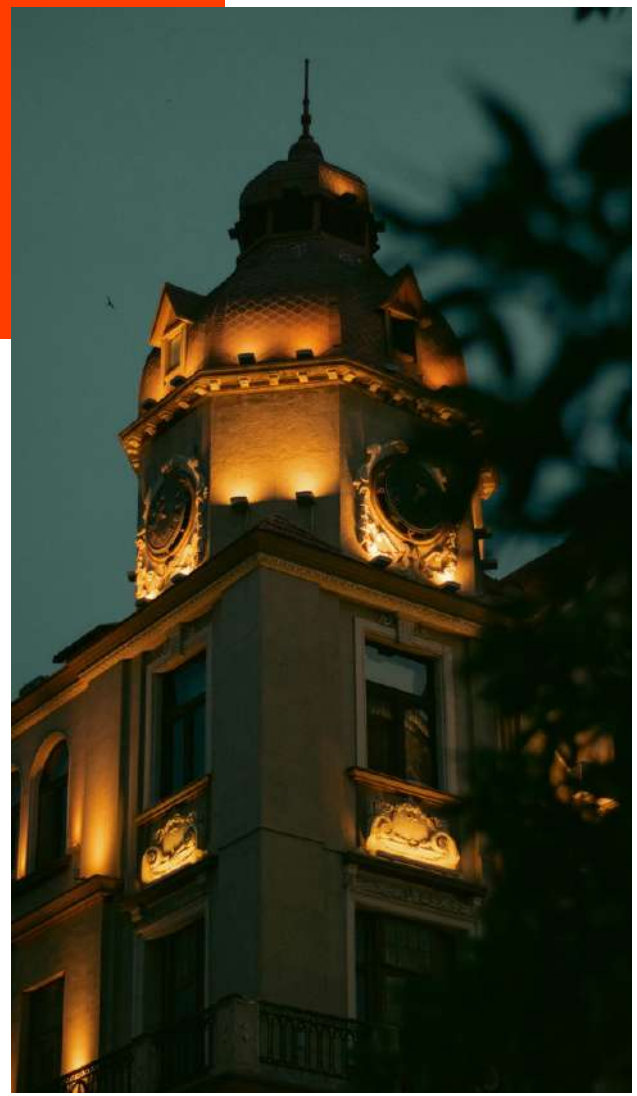
Uses the “beDMX” standard for DMX512 lighting control. Offers a range of up to 300m with a standard antenna or 1500m with specialized antennas. Configuration is performed via buttons on the device’s housing. Features a durable IP65-rated aluminum enclosure for all-weather outdoor and indoor use.



RadioGate Plus SHIELD

Multifunctional wireless transceiver for DMX stream transmission via 2.4 GHz radio channel with Ethernet support

Serves as an intelligent beDMX/Ethernet/DMX converter with merging capabilities, enabling wireless data transmission using the “beDMX” standard. Provides an efficient solution for managing DMX512-based lighting equipment. Features a durable IP65-rated aluminum enclosure for all-weather outdoor and indoor use.



SOFTWARE

A set of smart software solutions for optimal efficiency and flexibility





DITRA Light Studios

for Architectural Lighting

Create | Configure | Control



LightForm Studio

LightForm Studio is advanced lighting design software for creating, configuring, and managing dynamic architectural lighting. With a built-in visualizer, DMX script support, and seamless DITRA hardware integration, it ensures real-time control and flawless execution, turning creative visions into stunning masterpieces



LightMedia Studio

A versatile software solution for multimedia playback and synchronized lighting control. Designed for Windows, it enables seamless video and audio streaming, network-based transmission via ArtNet, and synchronized execution of lighting scenarios. LightMedia Studio supports both scheduled and real-time dispatcher commands, providing powerful tools for complex multimedia and lighting integration

DITRA CMS

Coordinate | Control | Dispatch

Live Lighting Management

"DITRA-CMS is a flexible platform for convenient scheduling and control of lighting scenarios. It offers an intuitive interface for dimming, grouping luminaires, assigning zones, and provides real-time status updates with precise GPS mapping.



Command Centre

Command Centre is the core module for configuring, monitoring, and managing smart street lighting networks. It enables real-time asset analysis, network commissioning, and fault detection, supporting administrators during installation and operation.



Geolocation mapping

The module supports detailed pole-based layouts for better visualization and management. It displays real-time luminaire status on a map, distinguishing controlled and uncontrolled units, and uses geolocation to ensure precise placement and monitoring.



Light Planner

Light Planner enables operators to program and adjust lighting in response to real-time dynamics. It supports schedules by sunset/ sunrise, daily/weekly plans, events, and advanced profiles. Lamps can adapt light levels to location, time, traffic, weather, and other conditions.



Dispatcher mode

The module optimizes lighting group organization and system monitoring. It provides dispatchers with an intuitive interface to structure lighting networks efficiently, enabling seamless tracking of system status and quick identification of any issues, ensuring reliable and streamlined operations.



Mnemonic diagrams

The module enables real-time visualization and control of cabinet components, creating an interactive schematic of the power and lighting system with programmable interactions. It also integrates sensor data for enhanced monitoring and control.

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SOLUTIONS

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