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visual engineering
LIGHTWARE

Room Automation Panel

RAP-B511 Series

The Room Automation Panel (RAP) was developed to provide Lightware's own, independent room control interface for small-to-medium applications, typically meeting rooms and conference rooms.

Our customers can now build systems without the need of third party control, based on purely Lightware technology and on our open API, saving investment and long time maintenance costs as well, while assuring system reliability.

Room Automation Panel RAP-B511 series

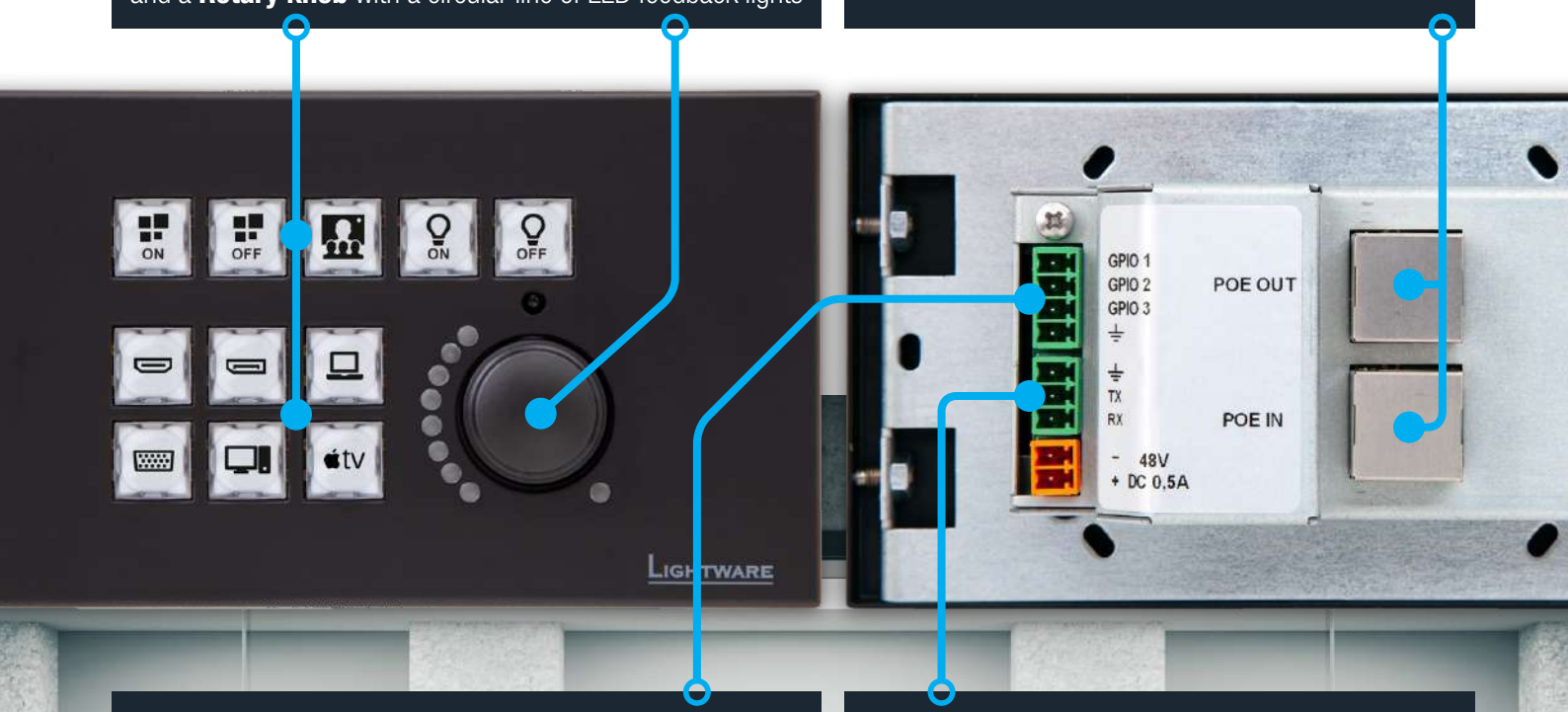
Features

Built-in **Event Manager room control** application

Real time clock with network time protocol **for scheduling**

11 backlit, programmable buttons with **96 stickers** for individual function labeling; and a **Rotary knob** with a circular line of LED feedback lights

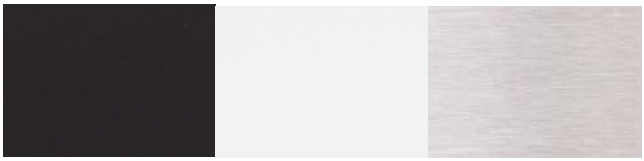
2x Ethernet connectivity with either receiving or sending of **PoE remote power**



3x GPIO for occupancy sensor, motorized screen or shades control

1x **RS-232** for peripheral device control

Available in **black, white and stainless steel** to match room design, without visible front screws



black white stainless steel

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Event Manager is a smart, built-in feature in select smart extenders, matrix routers and of course in the freshly released RAP. It was developed to handle tasks from the most simple to expert ones, like controlling display sinks, the rolling shutter, the air conditioning system or the lights. It utilizes all available control signal channels including RS-232, IR, GPIO and Ethernet.

As a built-in feature in a Lightware device, Event Manager performs actions at a response to a predefined condition, the most typical example for a condition being probably the insertion of an HDMI cable into an Event Manager enhanced switch, which would respond to this predefined condition by performing a predefined action (or a series of actions) of turning the lights off, turning the display on and setting the volume. There are a big number of definable conditions and actions in Event Manager.

Conditions
Video input signal detection / change
Audio input signal detection / change (digital only)
GPIO state changes
Optical / TPS connection link status
Display connection status
IR command

Actions
Video crosspoint switching
Audio crosspoint switching
Send RS-232 message
Send TCP / UDP messages to predefined destinations
Set / reset / toggle GPIO pin

Besides the option to define predefined conditions, **in case of RAP, the condition side of the condition/action pair of sequences can be replaced by the push of a button on the RAP panel**. As in the above example, if we want to turn the lights off, turn the display on and set the volume, then we need to program the Event Manager inside RAP to perform all these actions as a response to us pushing the relevant button on its front panel.

The **Event Manager within RAP has 300 programmable events**, a lot more than in a regular Event Manager-enhanced device, and also a **real time clock for automated scheduling** of actions.

The release of RAP brings along two groundbreaking, significant possibilities:

1. It **provides the services of Event Manager** where the installed devices in an application do not include it.

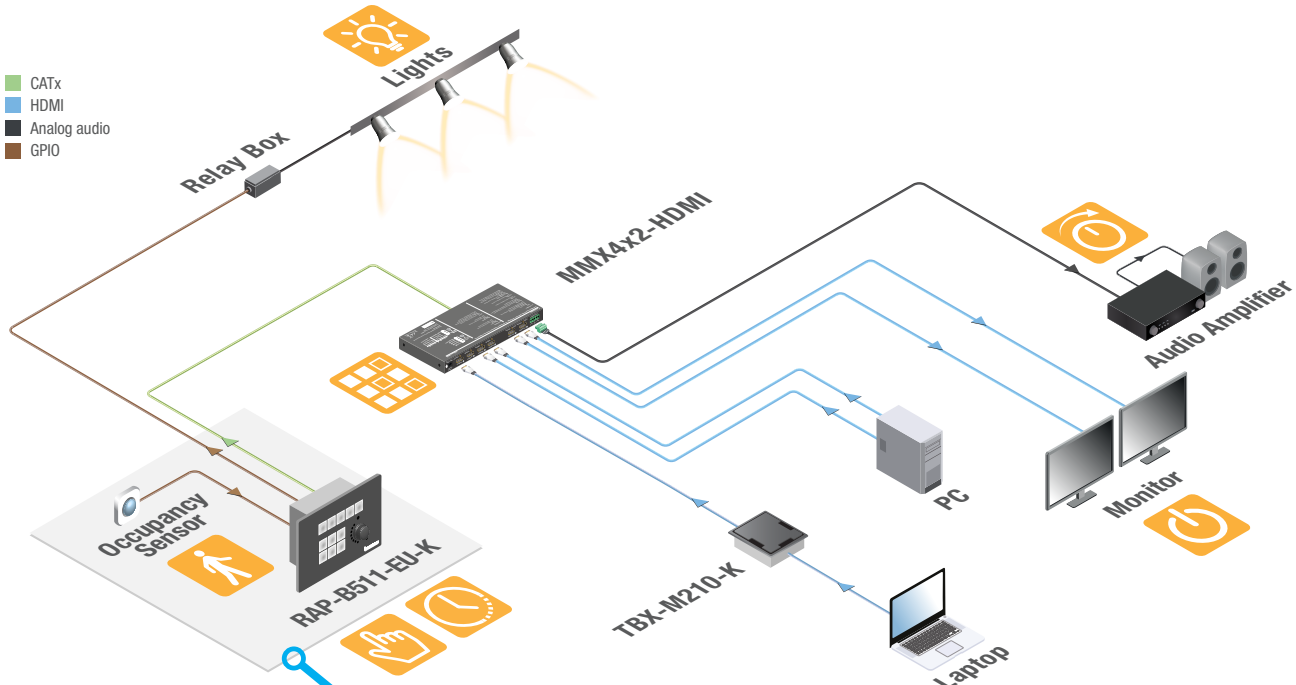
2. It also represents **an independent device with built-in Event Manager room control**, where **connected system elements and programmed room scenarios** can also be triggered by **direct manual commands**.

Conditions
Button pressed
Rotary turn or press
Real-time clock
Detected IR command
Detected RS-232 command
GPIO state changes

Actions
Button LED status change
Send RS-232 Message
Send TCP/UDP messages to predefined destinations
Set/reset/toggle GPIO pin

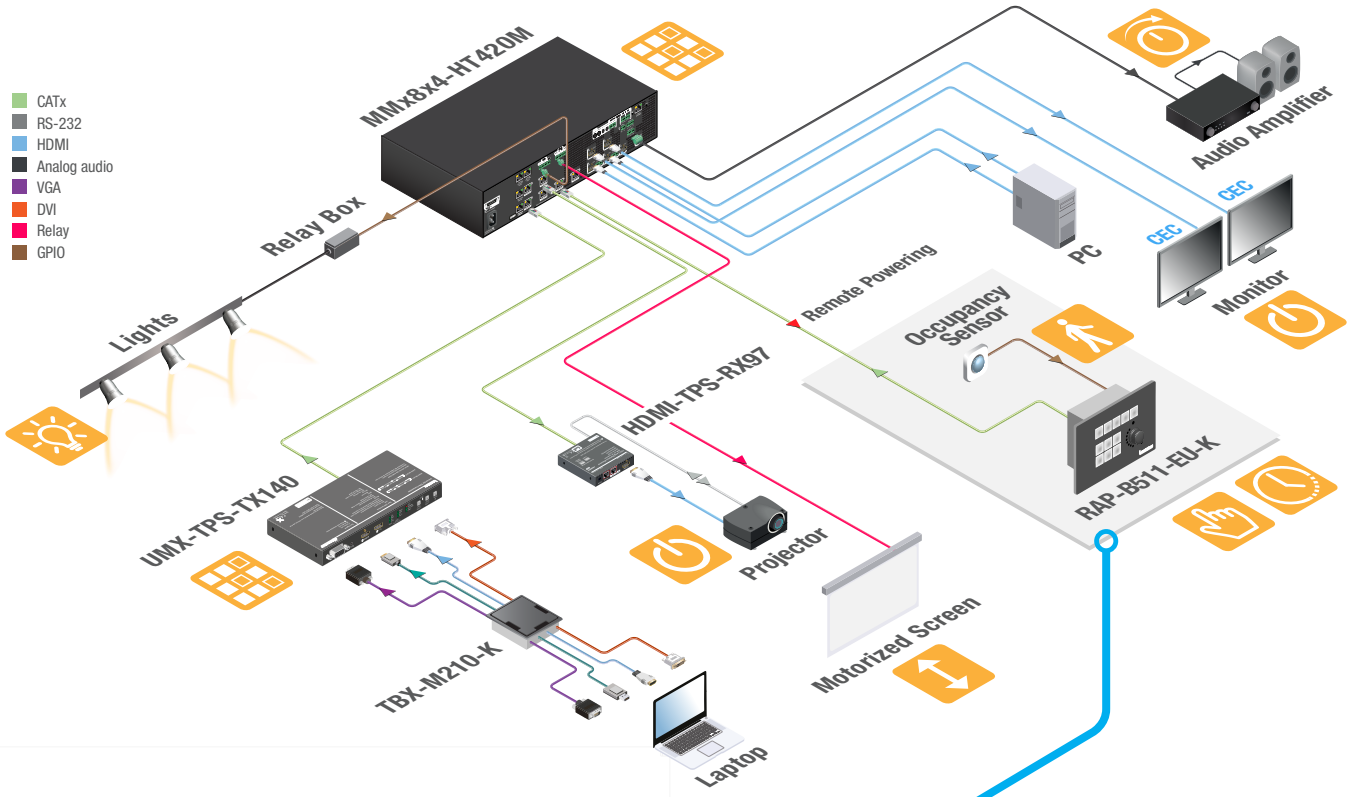
Application Examples

Meeting Room Application Example



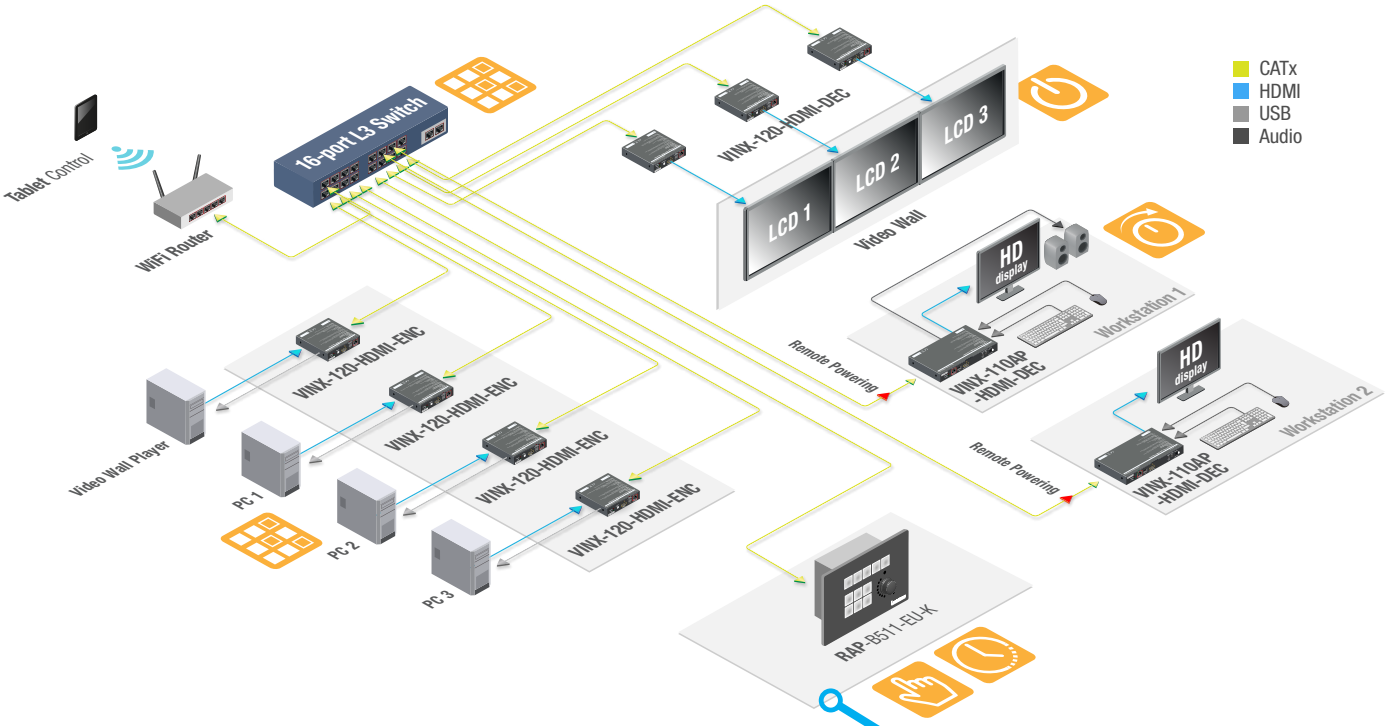
Conditions	Actions
Button Process	Source Switching
Scheduling	Display / Projector On / Off
Occupancy Sensor	Lamp On / Off
	Volume

Conference Room Application Example



Conditions	Actions
Button Process	Source Switching
Scheduling	Display / Projector On / Off
Occupancy Sensor	Lamp On / Off
	Screen Up / Down
	Volume

AV over IP System



Conditions		Actions	
	Button Process		Source Switching
	Scheduling		Display / Projector On / Off
			Volume

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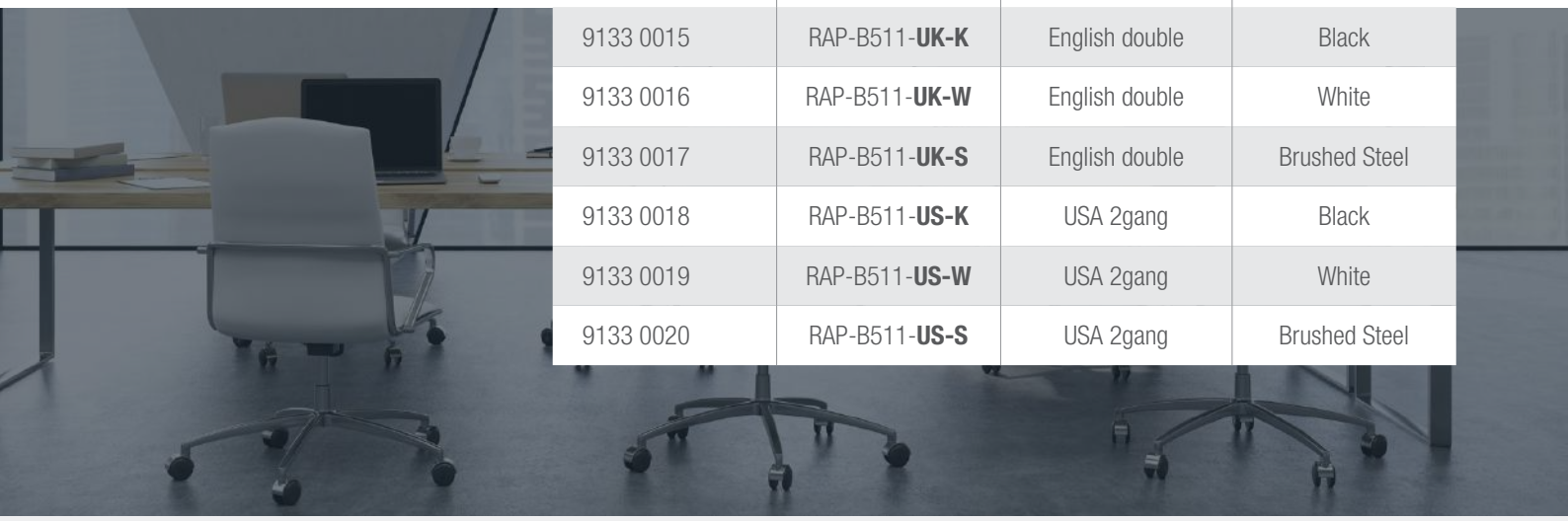
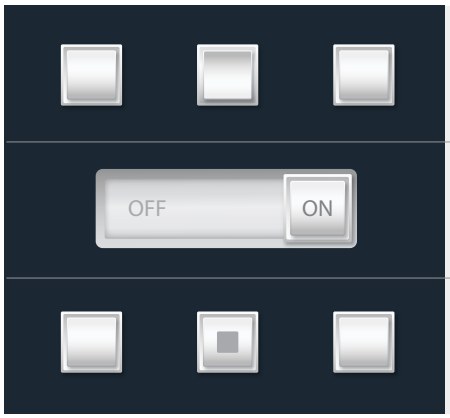
RAP-B511 is **available in numerous colors and dimensions**, fitting special wall panel standards.

Part Number	Product name	Type	Color
9133 0012	RAP-B511-**EU-K**	European 2x60	Black
9133 0013	RAP-B511-**EU-W**	European 2x60	White
9133 0014	RAP-B511-**EU-S**	European 2x60	Brushed Steel
9133 0015	RAP-B511-**UK-K**	English double	Black
9133 0016	RAP-B511-**UK-W**	English double	White
9133 0017	RAP-B511-**UK-S**	English double	Brushed Steel
9133 0018	RAP-B511-**US-K**	USA 2gang	Black
9133 0019	RAP-B511-**US-W**	USA 2gang	White
9133 0020	RAP-B511-**US-S**	USA 2gang	Brushed Steel



Button Operation Modes and Light Feedbacks

The 11 programmable buttons on RAP can not only assume various direct Event Manager commands and batch sequences - like managing crosspoint switch, display or system on/off or lights and shade control - but can do so by working according to the actual functions as momentary, toggle or radio buttons.



In **momentary button mode** the button either operates as long as it is pressed (like rolling down a motorized shade as long as it is pushed), OR by a single press it can be issue a command or start a command sequence.

In **toggle mode** the buttons work as a two-position button, e.g. one push switches the lights on, while pressing on the same button again the lights are turned off.

In **radio button mode** two or more buttons are linked logically and only one can be active at a time. A typical example is a crosspoint switch configuration.

The buttons are backlit, and their light effects are also programmable to provide feedback on their currently assumed status, e.g. a button light can be off when the room lights are off, and can be lit bright when the related lights in the room are turned on. The button background lights can show the following light patterns:

DARK (OFF)	DIMMED LIGHT	BRIGHT LIGHT	BLINKING SLOW	BLINKING FAST	PULSATING

All the Control You Need

RAP can provide you with the necessary control and prepare your room for any desired scenario. It can be programmed to do it automatically at a scheduled time, in response to predefined changes like a movement detected by a sensor, or it can act by receiving a direct manual command of a button press or a turn on the knob. It is easy to install, easy to integrate with third party systems, and if you have Lightware gear inside the room without Event Manager, then adding a RAP panel is probably the most convenient way of adding automation to the system.

Contact Lightware support or sales to learn more.