

X-X-74-



P44-xx: The lighting and automation controller for customised solutions

Based on the proven P44-DSB/P44-LC controllers, variants are available for sophisticated lighting and automation installations of all kinds.

Flexible: freely programmable with IDE and debugger thanks to built-in script language p44script.

Easy to integrate: connect to Smart Homes via built-in matter bridge (beta) or Digital Strom.

Stand-alone: Independent of services and clouds, always maintainable via browser. Ideal for reliable, long-lasting installations.

SmartLEDs

Up to 4000 GB(W) "pixels" in various designs (stripes, surfaces, curtains, etc.) based on the WS28xx LED chips can display effects, tickers and freely programmable animations.

DC motors, stepper motors for mechanical elements of all kinds

DMX 512

Spotlights and effects from stage technology

MIDI / MIDI-RTP Integration with audio installations

Digital I/O

Inputs and outputs for sensors, contacts, magnets, switches, etc.

modbus Server and client, UART + TCP

EnOcean

Maintenance-free wireless switches are also often very useful in customised automation projects

hue

available as with the standard products

Hardware

- · Built on the embedded P44 platform proven for many years in the P44-DSB and P44-LC: Omgea2/ MT7688 with OpenWrt Linux for economical 24/7 operation.
- Project-specific additional modules for further interfaces such as SmartLED control data, LED-PWM, DC motor H-bridges, stepper motors, RS485/DMX512, UART, encoder, optically isolated inputs/outputs, realtime clock, etc.
- Customised assembly variants of the existing modules are easily possible.
- Customer/project-specific additional modules can be developed as required.

Software

- · Uses the standard firmware of P44-DSB/LC, so the firmware can always be kept up to date exactly the same way, even in special versions.
- All standard P44-DSB/LC functions are available, i.e. zones, rooms, scenes, function groups etc.
- Project-specific programming is implemented in p44script on the device itself via the web interface and the built-in development environment (IDE), and is therefore completely independent of external tools and services, stable and easy to maintain over many years.
- p44script is a Javascript-like scripting language optimised for automation tasks, which integrators can use to efficiently implement projects independently or with support from plan44.
- The p44Irgraphics functions are available for creating lighting effects with SmartLED chains, making it easy to generate animations, tickers, colour gradients, etc.
- With the concept of scripted devices (which are also available in P44-DSB and P44-LC), even unusual special installations can be modelled as standard "lights" or "shutters" and thus seamlessly integrated into a higher-level SmartHome system.
- The built-in matter bridge (beta) allows connection to any matter-compatible SmartHome system, e.g. to use app or voice control.
- · Integration into Digital Strom is also available.

Fields of application

- · Customised objects in the SmartHome, e.g. special lighting installations, home theatre devices.
- Electromechanical devices, e.g. lamp lifts, room dividers.
- · Exhibition objects with electromechanics and light (and possibly sound)
- · Art objects with light and/or mechatronic elements

Project workflow

- Enquiry (e-mail, forum) to clarify the basic feasibility.
- · Provision of the required hardware standard device with extension module, manufactured or, if necessary, developed on a project basis.
- Implementation in p44script ideally by the manufacturer of the customised object with the support of plan44, or if necessary by plan44 on behalf of the customer.

Further information

- Device variants:: plan44.ch/automation/p44-xx-custom.php
- Project examples: plan44.ch/custom
- Technical documentation: plan44.ch/p44-techdocs
- plan44 online forum: forum.plan44.ch



©2024 by plan44.ch, Hermetschloostrasse 70, CH-8048 Zurich, Switzerland - Specifications subject to change without notice. "DALI" is a registered trademark of the Digital Illumination Interface Alliance., see digitalilluminationinterface.org "Philips Hue" is a trademark licensed from Signify Holding, see meethue.com

"EnOcean" is a registered trademark of EnOcean GmbH, 82041 Oberhaching, Germany, see. <u>enocean.com</u> "Digital Strom" is a registered trademark of Digital Strom AG, Schlieren, Switzerland, see <u>digitalstrom.com</u>



