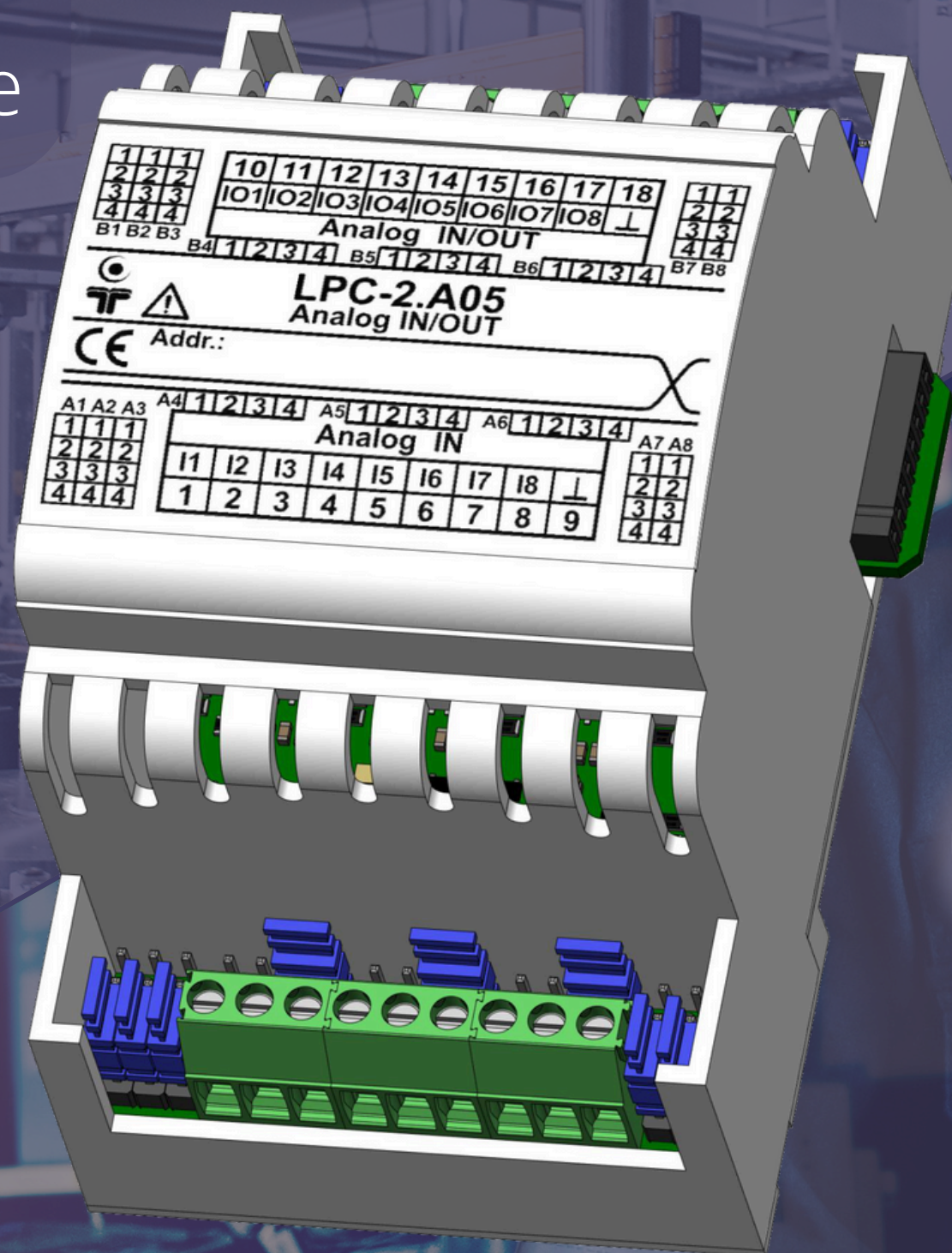


LPC-2.A05

8AIO 8AI analog I/O module



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INTRODUCTION

Discover the versatility of the LPC-2.A05 universal analog module

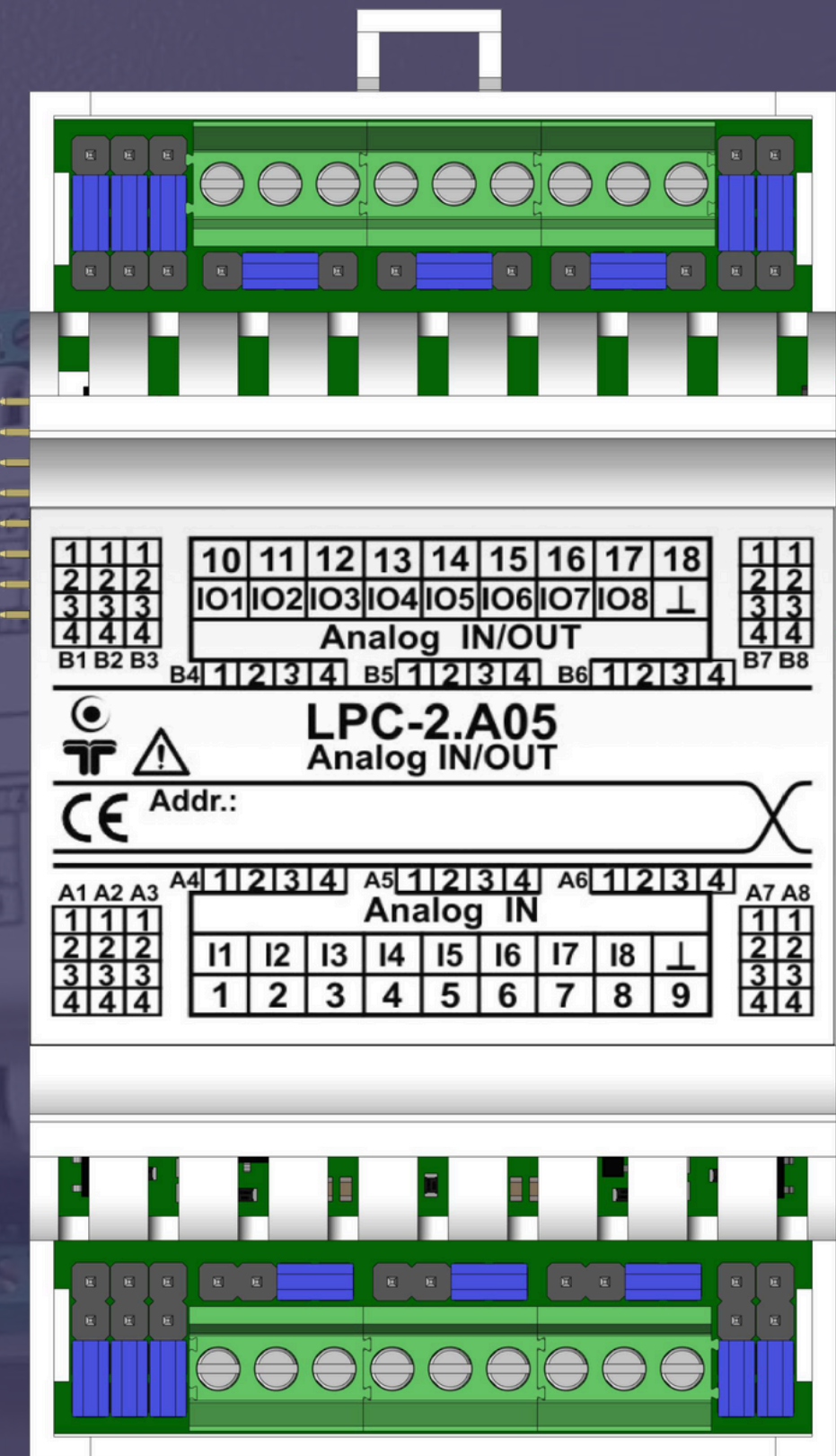
The LPC-2.A05 module is a cutting-edge universal analog module designed to provide a wide range of analog input and output options to meet diverse application needs. LPC-2.A05 module features 8 configurable analog inputs (I1 to I8) and 8 configurable analog inputs or outputs (IO1 to IO8), supporting a total of up to 16 analog inputs and outputs.

Experience superior performance

Enhance your system's capabilities with the LPC-2.A05 module. Its innovative design, versatility, and ease of use make it the perfect choice for professionals seeking reliable and flexible solutions.

Seamless and versatile control with a Smarteh PLC main module

The LPC-2.A05 module can be seamlessly controlled from the main PLC main module (e.g., LPC-2.MMx, LPC-2.MC9). Module parameters can be easily read or written via Smarteh IDE software.



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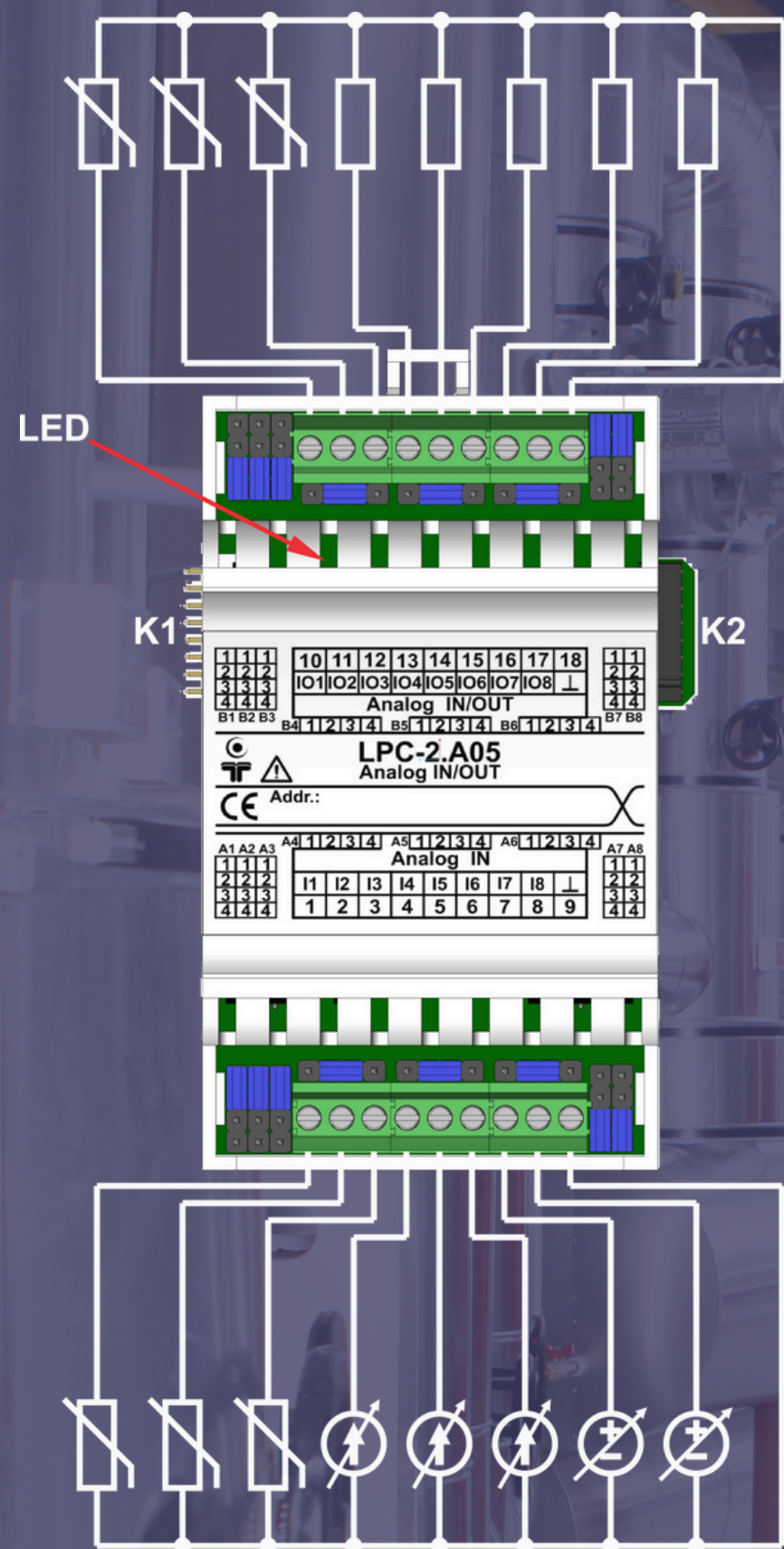
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KEY FEATURES & BENEFITS

➤ Configurable channels

Each input channel I1 to I8 can be individually set for analog voltage input, analog current input or thermistor input. The IO1 to IO8 channels can be individually configured as thermistor inputs, analog voltage output, analog current output or PWM output.

➤ Temperature measurement

Thermistor input supports various thermistors, including NTC, Pt100 and Pt1000 making the LPC-2.A05 module ideal for precise temperature measurements.

➤ PWM output

The PWM output complies with VDMA 24224 standard and is capable of generating a pulse width modulation signal, making it perfect for applications such as motor speed control or LED dimming.



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Project

A05

NTC

resource1

1.x: Right

2.x: Left

3.x: Devices

4.x: ...

DP2 x

NTC

Disc...

Class Filter: An

#	Name	Class	Type	Locat
1	I16_1_IN1	Local	BOOL	%IX1.1.1
	Force_output_1	Local	UINT	%QW1.1.1
3	A05_1_ai_analog_input_1	Local	UINT	%IW1.1.0

Summer_mode

first

AlwaysON

DP2_1_o2Pipe

DP2_1_oImpEn

Summer_mode

DP2_1_oSumM

DP2_1_oSysOff

DP2_1_oRem

NTC0

NTC

X_in Y_out

A05_1_ao

MB_HR_34

MB_HR_36

MUL

IN1 OUT

IN2

DP2_1_oRTSet

Search

Console

PLC Log

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KEY FEATURES & BENEFITS

➤ Control and compatibility

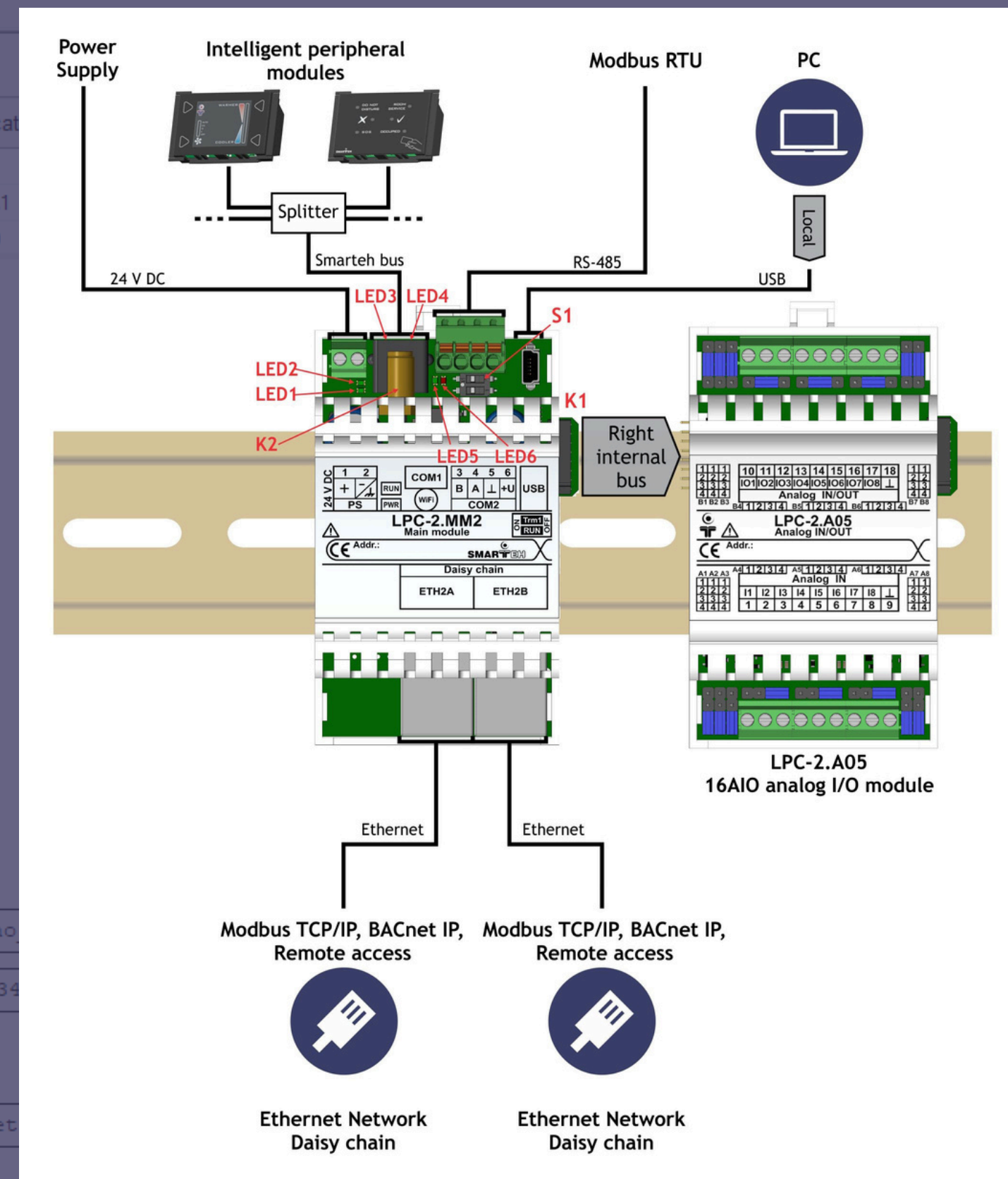
The LPC-2.A05 module can be efficiently controlled by a Smarteh PLC main module such as LPC-2.MC9 or LPC-2.MMx, providing flexibility and scalability for various system configurations.

➤ Flexible configuration

Functionality for each channel is easily selectable via a physical jumper on the LPC-2.A05 module and by configuring the appropriate register settings.

➤ Integrated power supply

The module is powered through the internal bus, ensuring seamless integration and reliable performance.



KEY APPLICATIONS

➤ Industrial automation

Optimize processes with precise analog and PWM outputs.

➤ Temperature monitoring

Accurately measure and control temperature with thermistor inputs.

➤ Motor control

Efficiently manage motor operations with PWM outputs.

➤ Lighting control

Achieve optimal lighting conditions using dimming capabilities.



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GENERAL

The infographic features a central white circle with the word 'GENERAL' in bold blue text. Five red lines radiate from this circle to five numbered red circles (1-5), each containing a specification. The background is a blurred image of a green PCB with various electronic components like chips, capacitors, and connectors.

1

ANALOG I/O'S

8 analog inputs/outputs:
thermistor, voltage out., current out., PWM out.

2

ANALOG INPUTS

8 analog inputs:
voltage input, current input, thermistor

3

ANALOG I/O RANGE

0 .. 10 V
0 .. 20 mA

4

TYPE OF ANALOG I/O'S

Jumper selectable input/output and type of
input & output

5

ADC RESOLUTION

12 bit

**I1 ... I8
ANALOG
INPUTS**

1

ANALOG VOLTAGE INPUT

0 ... 10V

2

ANALOG CURRENT INPUT

0 ... 20 mA

3

THERMISTOR INPUT

Pt1000, Pt100, NTC 10k



1

THERMISTOR INPUT

Pt1000, Pt100, NTC 10k

I01 ... I08
ANALOG
INPUTS /
OUTPUTS

2

ANALOG VOLTAGE OUTPUT

0 ... 10V

3

ANALOG CURRENT OUTPUT

0 ... 20 mA





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