# Lime Knx PowerIP

DESCRIPTION.

7625277

The Lime KNX PowerIP combines the central functions of a KNX bus line in a compact device (GTE): a 640 mA bus power supply with inductor, IP router and IP interface. In addition to the bus voltage, the power supply also has an auxiliary voltage output. The IP router in the device allows the forwarding oftelegrams between different lines via a LAN (IP) as a fast backbone. Via the interface function the KNX line can be addressed directly from a PC.

The device operates according to the KNXnet/IP specification using core, device management, tunneling and routing. The configuration is done with the ETS (version 4.2 or higher). An easy-to-read OLED display on the front allows the display of the operating parameters locally on the device.

6MOD
SIZE

TP

4 ETS   5 ETS
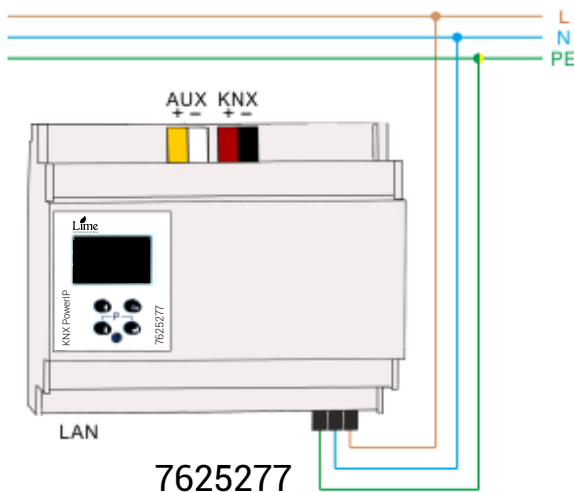
640 MA POWER SUPPLY WITH INTEGRATED KNX IP ROUTER AND DIAGNOSIS FUNCTIONS

TECHNICAL SPECIFICATION

PRODUCTION IN GERMANY, CERTIIED ACCORDING TO ISO 9001

Electrical safety	Protection (acc. EN 60529): IP 20
CE marking according to	• Low Voltage Directive 2014 / 35 / EU • EMC Directive 2014 / 30 / EU • RoHS Directive 2011 / 65 / EU • EN 50491 -3: 2009, EN 50491 -5 -1 : 2010, EN 50491- 5 -2: 2010, EN 50491 -5 -3 : 2010 • EN 61000 -6- 2: 2005, EN 61000 -6 -3: 2007 + A1: 2011 • EN 60950 -1: 2005 + A1: 2009 + A2: 2013 • EN 50581: 2012

Controls and Indicators	• OLED display, Programming LED • 4 buttons
Ethernet	• 100BaseT (100 Mbit/s) • Supported internet protocols ARP, ICMP, IGMP, UDP/IP, DHCP and Auto IP • Up to 6 KNXnet/IP Tunneling connections simultaneously
KNX	• Medium IP/TP • Filter table 8 kByte

MEMBER KNX

TECHNICAL SPECIFICATION

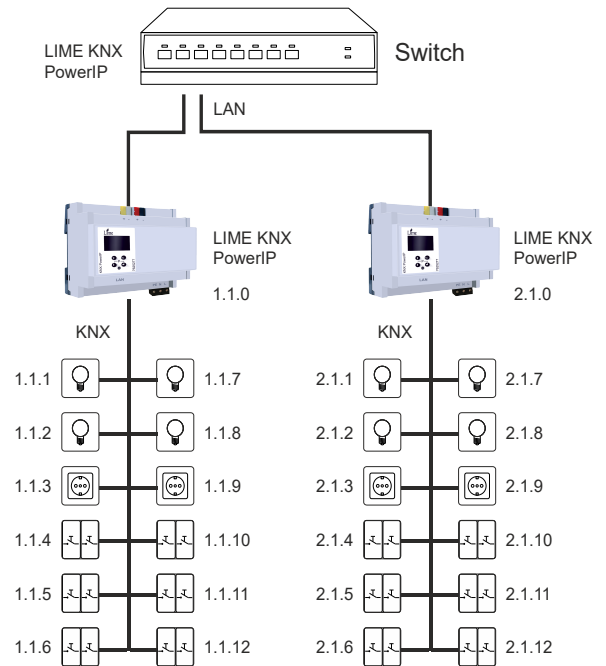|			
Environmental requirements	● Ambient temp. operating: - 5 ... + 45 °C ● Ambient temp. non-op.: - 25 ... + 70 °C ● Rel. humidity (non-condensing): 5 % ... 93 %	**Power Supply**	Input supply 230 V AC, 50 Hz ● Power loss (no operation): ca. 1.2 W ● Power consumption (max., overload): 48 W ● Efficiency at rated load: ca. 85 % (including bus choke)
Output	● KNX rated voltage 30 V DC, SELV ● Auxiliary rated voltage 30 V DC, SELV ● Rated current 640 mA (both outputs in total)	**Connectors**	● Pluggable screw connector for 230 V AC ● Bus connector for KNX output (RD / BK) ● Connector for auxiliary power output (YE / WH) ● LAN RJ-45 socket
Mechanical data	● Housing: plastic (PC) ● DIN rail mounted device, width: 6 units (108 mm) ● Weight: approx. 300 g		

POWER SUPPLY WITH CHOKE

The power supply with high efficiency of the KNX PowerIP provides a 29V bus voltage for the KNX system and an additional output with auxiliary voltage for supplying other devices. Special operating conditions such as short circuit, overvoltage, overload or overtemperature are logged and can be read off the display. The current current consumption is also displayed. A reset of the connected bus nodes is possible via the keypad.

KNX IP ROUTER

The KNX PowerIP integrated KNX PowerIP router allows the transmission of telegrams to other lines via the LAN (IP) as a fast backbone (KNXnet/IP routing). The KNX IPowerIP thus also assumes the function of a KNX line coupler.

KNX IP INTERFACE

The KNX PowerIP can be used as an interface for bus access via IP. The KNX system can be configured and monitored from any PC in the LAN (KNXnet/IP tunnelling).

LIME KNX PowerIP — Switch

LAN

LIME KNX PowerIP 1.1.0   LIME KNX PowerIP 2.1.0

KNX   KNX

1.1.1	1.1.7	2.1.1	2.1.7
1.1.2	1.1.8	2.1.2	2.1.8
1.1.3	1.1.9	2.1.3	2.1.9
1.1.4	1.1.10	2.1.4	2.1.10
1.1.5	1.1.11	2.1.5	2.1.11
1.1.6	1.1.12	2.1.6	2.1.12

INSTALLATION INSTRUCTIONS

The device may be used for permanent interior installations in dry locations or within distribution boards with DIN rail.

⊙ The device must be mounted and commissioned by an authorized electrician.
⊙ The prevailing safety rules must be heeded.
⊙ The device must not be opened.
⊙ For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
⊙ The device is a permanently connected equipment: A readily accessible disconnect device shall be incorporated external to the equipment.
⊙ The installation requires a 16 A fuse for external overcurrent protection.
⊙ The power rating is indicated on the side of the product.

KNX

This device is complies with the KNX guidelines. Detailed knowledge of KNX and KNX training are a pre-condition for understanding and proper installation· Planning, installation and commissioning of the device are done withe KNX-certified software.

Support

The standard support is provided by the e-mail address: Support@lime-smart.com