7.1 Technical Data

Application Manual

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7.1 Technical Data

Mechanical

Dimensions	90 x 72 x 63 mm
Installation	DIN-Rail
Protection class	IP20
Temperature range (environmental)	-25°- 55°C

Please notice that the maximum output current for L+ decreases with rising temperature. The maximum achievable environmental operating temperature is also depending on the CPU load of the device.

The temperature of 55°C environmental was tested with 4 output ports at maximum L+ current per port.

Connections

Power supply

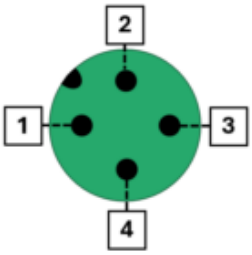
- DC Input: 24V DC (+/-20%)
- Power consumption max. 2800mA (SDCI port supply included)

The output voltage on the L+ depends on the input voltage and the internal voltage drop of the device. At room temperature, the voltage drop is approximately 0,3V at room temperature and 1,4V at 55°C ambient @ 900mA load at L+ (two ports enabled at max. load).

SDCI-Ports (IO-Link compatible)

- 4 SDCI-Ports (IO-Link® compatible)
- Connector M12 (female)
- Class A (max. 450mA L+ per Port)
- Communication speeds COM1, COM2, COM3 (Auto-Detect)
- Operating mode: IOL (DO and DI currently not supported)

Pin	Connection
1	L+
2	Future use DI/DO
3	L- (GND)
4	C/Q



The output current on the L+ and C/Q lines are monitored to not exceed 450mA per port

on L+ and 350mA on C/Q (@ 20°C, higher temperatures lead to lower output current). The user, however, shall not install devices that exceed the above current consumption limits (consult device datasheet for reference).

Ethernet

- 1000MBit, RJ45
- IPv4 as DHCP client or with fixed IP address (see Ethernet configuration)

RTC/Battery

The Pinebox is equipped with an Real-Time-Clock (RTC) that will provide accurate time to the device without network connection. The clock is powered with a CR2032 battery with a lifetime expectation of >1year (the battery is not consumed while power is applied).

Others

- 1 USB-A port for future extension, max. cable length <1,5m