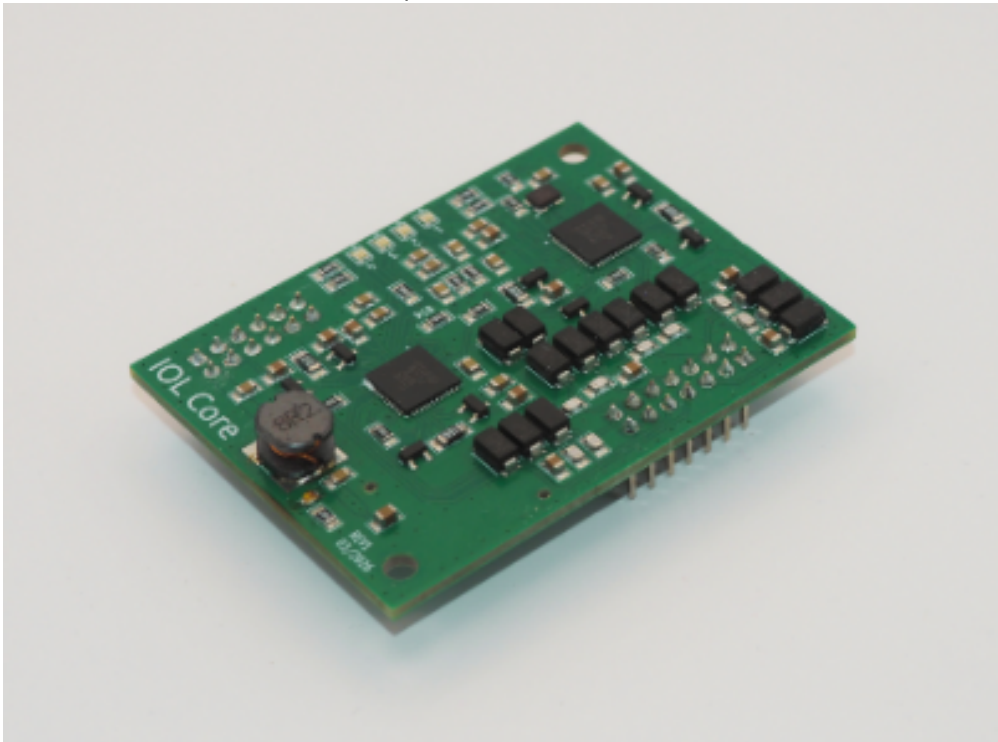


## 3.2 User interface and device ports

Hardware manual

[www.pinetek-networks.com](http://www.pinetek-networks.com)





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## 3.2 User interface and device ports



### Device LEDs

The Pinebox has two LED indicators for the device status

#### Power LED

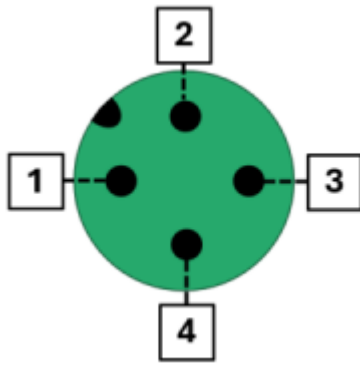
| Status | Description                                                                             |
|--------|-----------------------------------------------------------------------------------------|
| OFF    | No power supply, power supply out of specified range, internal power supply malfunction |
| Green  | Power supply good                                                                       |

#### System LED

| Status             | Description                                                       |
|--------------------|-------------------------------------------------------------------|
| OFF                | System not running                                                |
| Blinking green     | System starting (e.g. after initial power on, or reset of device) |
| Solid green        | System running                                                    |
| Red                | System error, please contact support                              |
| Blinking Red/Green | Software update ongoing                                           |

### Device Ports

The Pinebox has four ports that can connect to IO-Link compatible (SDCI) devices. The connection is established via a 4-pin M12 (female) connector with the following pin assignments (as per connector on the Pinebox):



| Pin | Signal | Description                                                                                                                                              |
|-----|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | L+     | 24 Volt power supply to device (will be switched by Pinebox ). The Pinebox can deliver max. 450mA per port on this pin. The pin is overload protected.   |
| 2   | I/Q    | Digital Input/Output – currently not supported by Pinebox                                                                                                |
| 3   | L-     | Device GND<br>Please note that the GND potential at the 24V input connector and the GND potential at the port connectors differ due to internal filters. |
| 4   | C/Q    | Communication signal (SIO- Standard Input/Output). The Pinebox can deliver max. 150mA per port on this pin. The pin is overload protected.               |

The Pinebox supports communication speeds COM1, COM2 and COM3. The speed is auto-detected.

### Device Port Indicators

Each port has one LED indicator located at the port.

| Status             | Description                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------|
| Off                | Port power not enabled                                                                       |
| Green solid        | Port power enabled, communication to connected device ok                                     |
| Blinking Red/Green | Port power enabled, no device detected at port                                               |
| Blinking Green     | Port enabled, device detected but device configuration faulty (e.g., wrong IODD file loaded) |

The device port indicator perform a flashing circle at the start of the application software to indicate the Pinebox is ready for operation.