3.2 User interface and device ports

Hardware manual

www.pinetek-networks.com

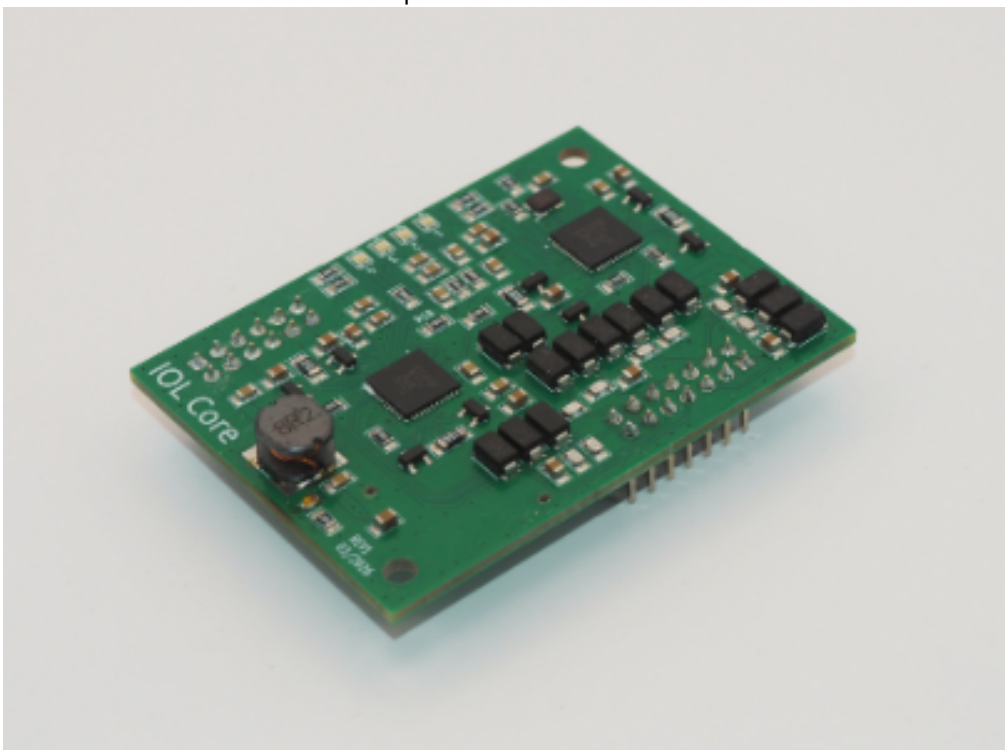


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3.2 User interface and device ports



Device LEDs

The Pinebox has two LED indicators for the device status

Power LED

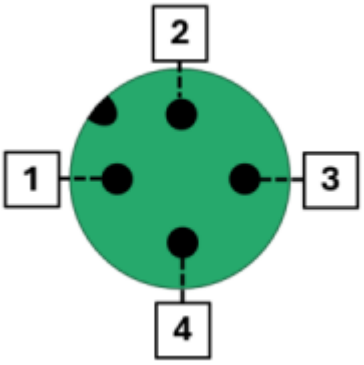
Status	Description
OFF	No power supply, power supply out of specified range, internal power supply malfunction
Green	Power supply good

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 follwing 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 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.