



FiberLink

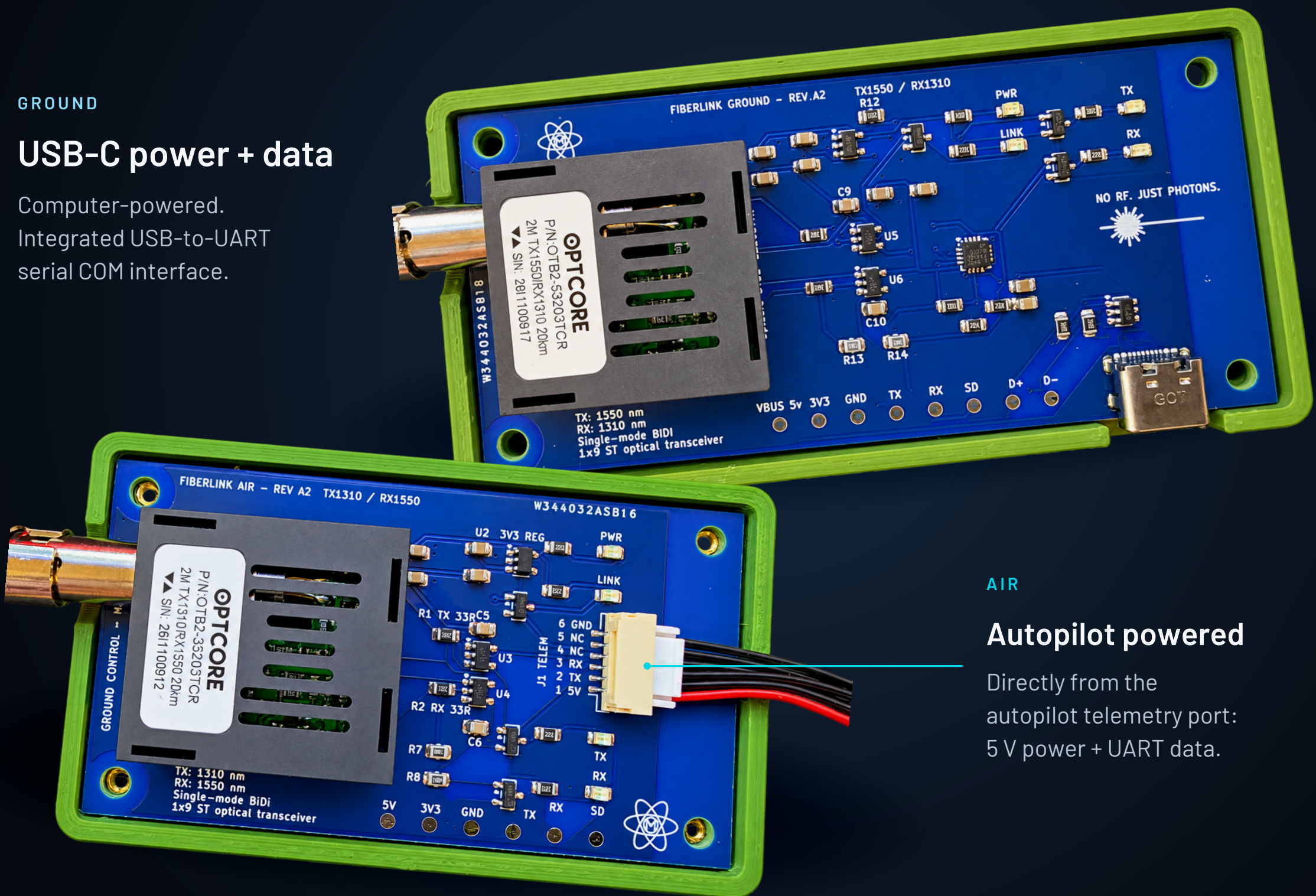
AERO

Ground-to-air control & telemetry over a single fiber.

GROUND

USB-C power + data

Computer-powered.
Integrated USB-to-UART
serial COM interface.



AIR

Autopilot powered

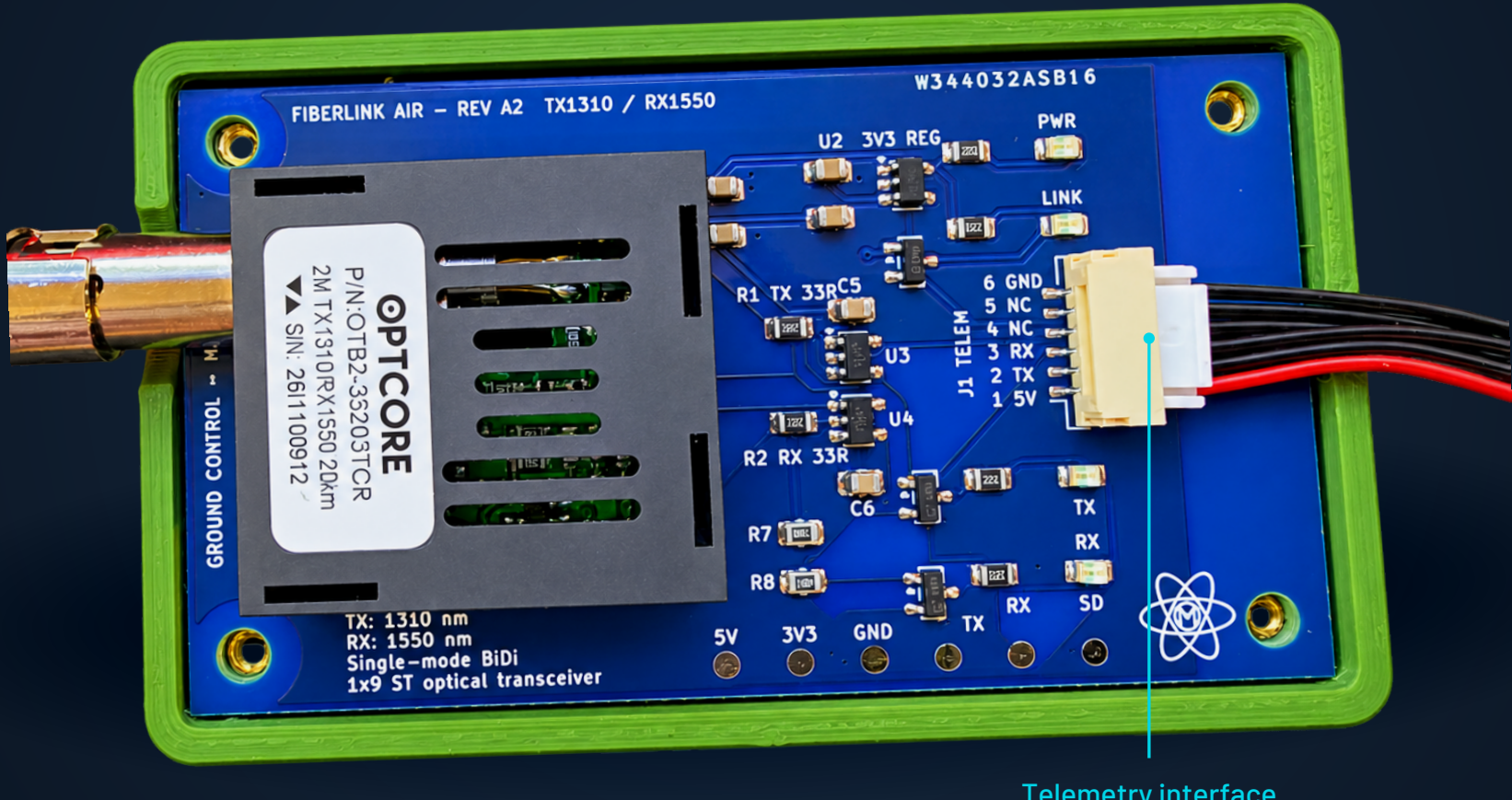
Directly from the
autopilot telemetry port:
5 V power + UART data.

- Single fiber
- Autopilot telemetry power
- USB-C to COM
- Commands + telemetry
- 5 V supply / 3.3 V logic
- Power + serial data

01 / AIR MODULE

Powered directly by the autopilot.

One telemetry connection supplies 5 V power and 3.3 V UART data.



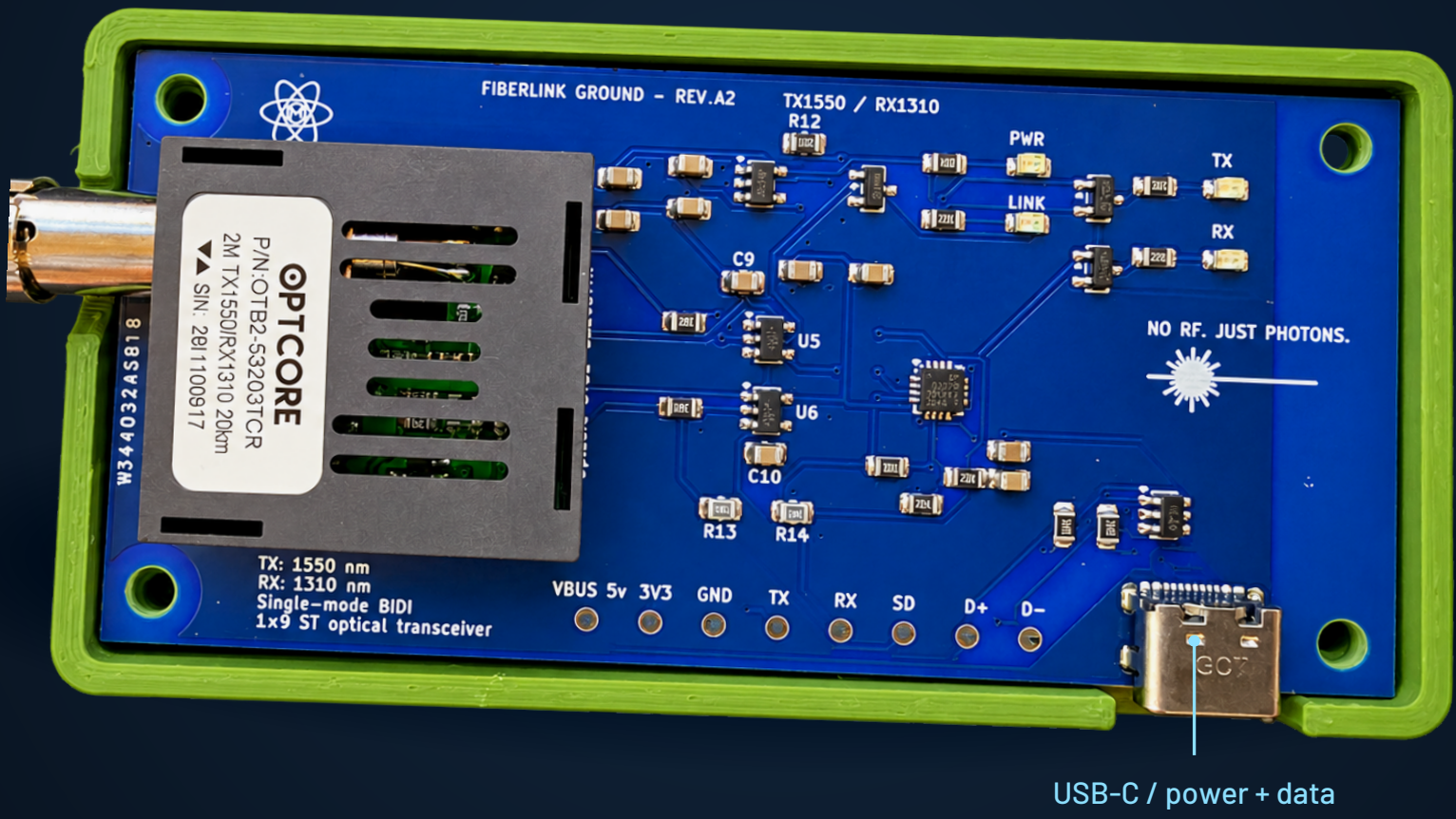
- 5 V
- Autopilot telemetry
power
- 3.3 V
- UART logic level
- 4 LEDs
- Power, link, TX & RX

02 / GROUND MODULE

USB-C. Power, data and a COM port.

Connect to your computer for power and an integrated USB-to-UART interface.

- USB-C power input
- Integrated USB-UART
- Serial port integration
- One host connection supplies
board power and carries serial
data.
- On-board conversion presents
the optical link as a serial COM
port.
- Select the COM port and match
the autopilot UART baud rate.



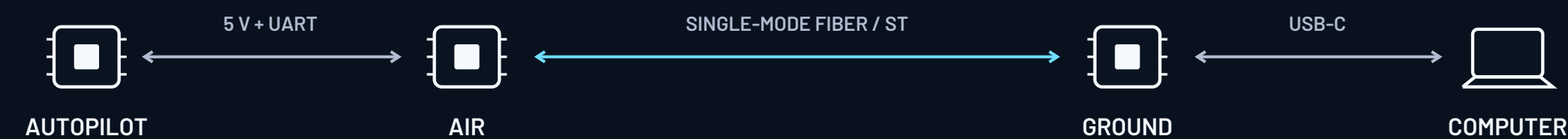
USB-C / power + data

Interface architecture

- Bidirectional optical transport
- Autopilot electrical interface
- USB-C host interface
- Power, link & activity
- Transparent UART/MAVLink communication over one strand
of single-mode fiber, with ST optical connections.
- 5 V power from a compatible telemetry port, with 3.3 V UART
logic for command and telemetry data.
- USB bus power and integrated USB-to-UART conversion
present the ground connection as a standard serial COM
port.
- Dedicated PWR, LINK, TX and RX indicators show board
power, optical-link status and transmit/receive activity.

Bidirectional single-fiber transport

Complementary optical wavelengths carry serial data in both directions.



- OPTICAL LINK
- Single-mode fiber / ST
- AIR WAVELENGTHS
- TX 1310 nm / RX 1550 nm
- GROUND WAVELENGTHS
- TX 1550 nm / RX 1310 nm
- SERIAL DATA
- Bidirectional UART / MAVLink
- AIR / GROUND POWER
- 5 V telemetry / USB-C
- INDICATORS
- PWR / LINK / TX / RX