USB + PD
Max 60W
Can be used for Firmware Upgrade / Reset

Ethernet + PoE
Max 12W

Gateway

Device — Device — Device · · · · ·

Device — Device — Device · · · · ·
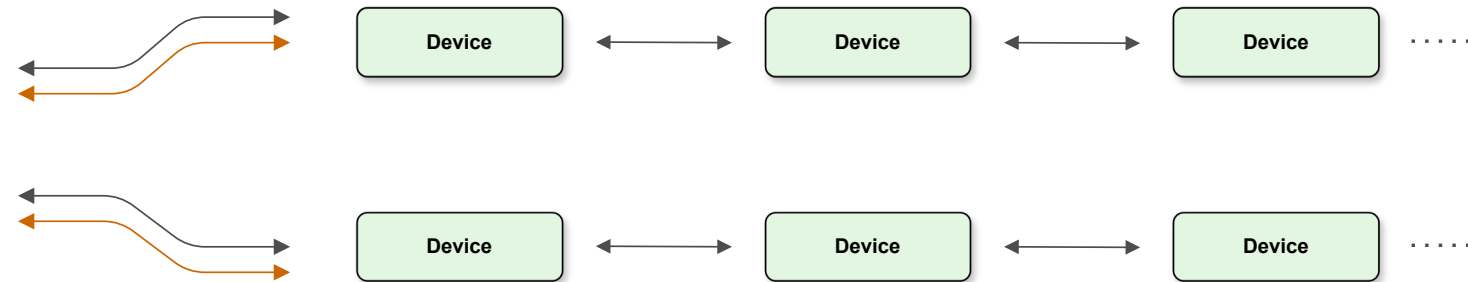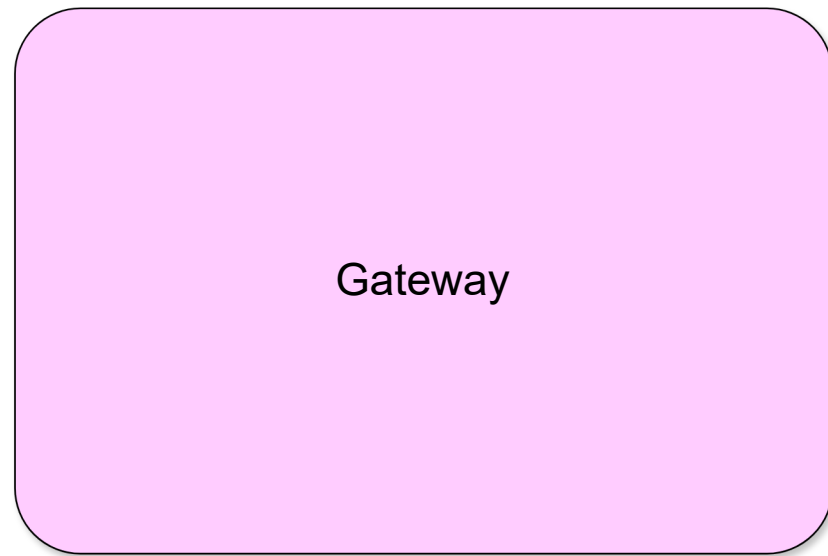
Can use up to 10W over both bus, can work with PoE

Can use up to 60W over both bus, only works with USB-PD

Connector

- 4 poles
- 1x4 / 2x2 configurations
- Connectors / Terminal Blocks

Conn.

Data -
Data +
GND
+12V

Conn.

+12V
GND
Data +
Data -

Legend:
- Data signals
- +12V ÷ +15V
- +5V / +15V
- +12V
- +3.3V

GATEWAY

BUS connector
TBP03R1-350-04BE

BUS connector
TBP03R1-350-04BE

RS-485 Transreceiver
THVD1450DR

RS-485 Transreceiver
THVD1450DR

MCU
STM32G0B1...

DC-DC
Buck Converter

Switch

Current Monitor
INA220

Power Mux
2x TPS25947

PoE → DC module
Ag9712-2BR

Ethernet PHY
W5500

USB connector

Ethernet connector
ARJM11C7-114-BA-EW2