

balenaFin

Document Type	Datasheet
Product ID:	FIN00028 (v2)
Product Name	Modular DIN-rail Case
Document Version	0.0.2
Author	Nicolas Tzovanis
State (Draft/Proposed/Approved)	Approved

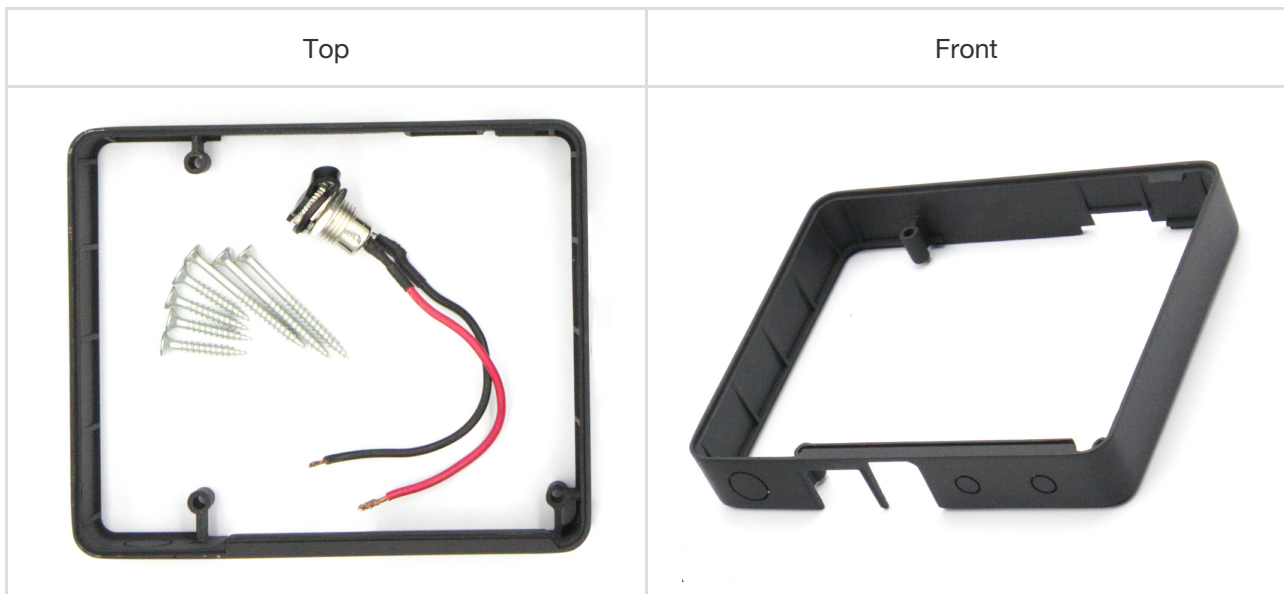
Revision history

Date (dd/mm/yyyy)	Version	Author	Description
24/05/2018	0.0.1	Nicolas Tzovanis	First release
24/05/2018	0.0.2	Nicolas Tzovanis	Update phoenix ring pinout

1. Introduction

The modular DIN-rail case is the official protective enclosure for the balenaFin. It is compatible with all v1 balenaFins (v1.x.x). The modular ring design allows standard or custom HATs to be included inside the case.

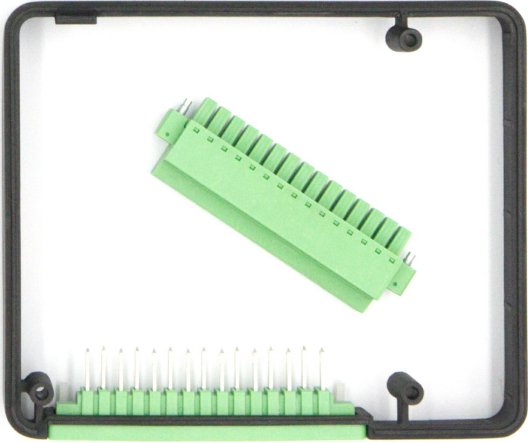

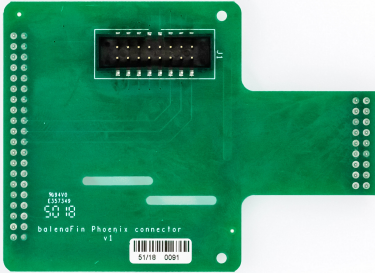

1.1 Standard balenaFin ring



Standard ring for balenaFin, exposes the following ports:

- USB port
- RJ45 ethernet port
- Barrel jack (5.5 x 2.1mm) input power
- Removable cap for WiFi external antenna
- Removable cap for Bluetooth external antenna

1.2 Terminal block ring

Top	Bottom
	
HAT	IDC cable
	

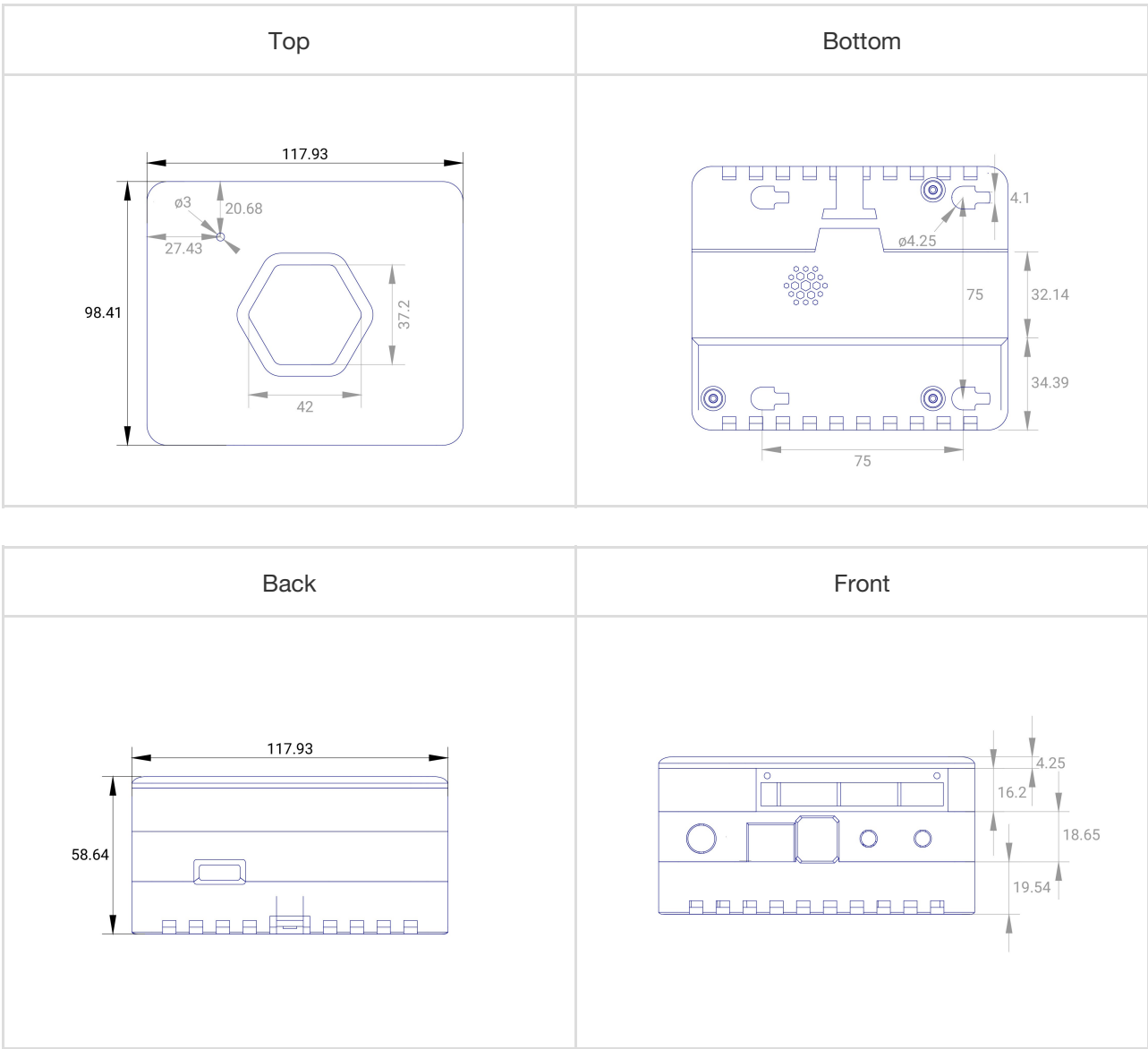
The terminal block ring extends balenaFin I/O headers to the exterior of the case. Comes with a HAT and IDC cable.

1.2.1 Terminal block ring pin map

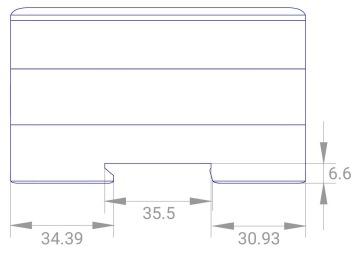
Fin header pin #	Co-processor header pin #	Case terminal pin #	Pin name
2	NC	1	5V
6	NC	2	BCM10 (MOSI)
8	NC	3	GND
10	NC	4	BCM9 (MISO)
3	NC	5	BCM14 (TXD)
5	NC	6	BCM11 (SCLK)
12	NC	7	BCM15 (RXD)
16	NC	8	PD14
19	NC	9	BCM2 (SDA)
21	NC	10	PA2
23	NC	11	BCM3 (SCL)
NC	1	12	PA3
NC	3	13	BCM18 (PWM0)
NC	5	14	PF6
NC	13	15	BCM23

2 Mechanical dimensions

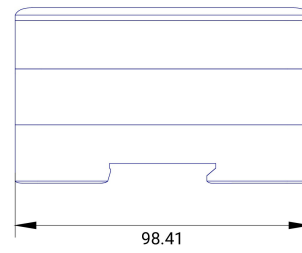
All units are in mm



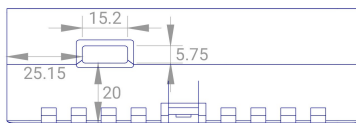
Right



Left



Back ports



Front ports

