

balenaFin

Document Type	Datasheet
Product ID:	FIN00028 (v2)
Product Name	Modular DIN-rail Case
Document Version	0.0.1
Author	Nicolas Tzovanis
State (Draft/Proposed/Approved)	Proposed

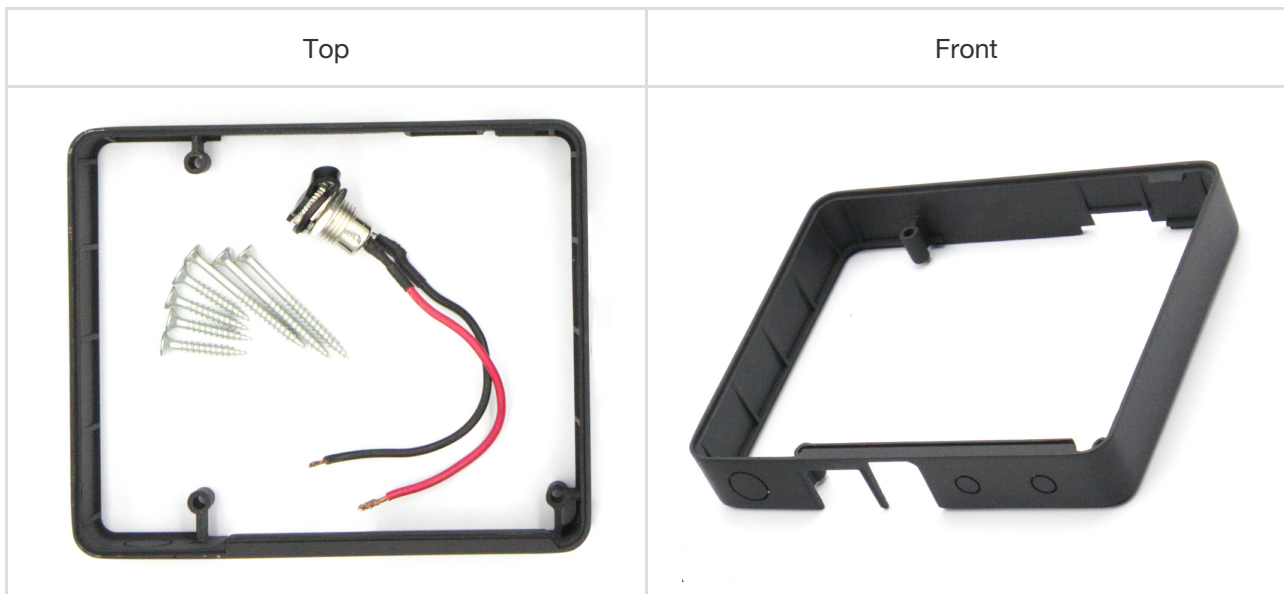
Revision history

Date (dd/mm/yyyy)	Version	Author	Description
24/05/2018	0.0.1	Nicolas Tzovanis	First release

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.

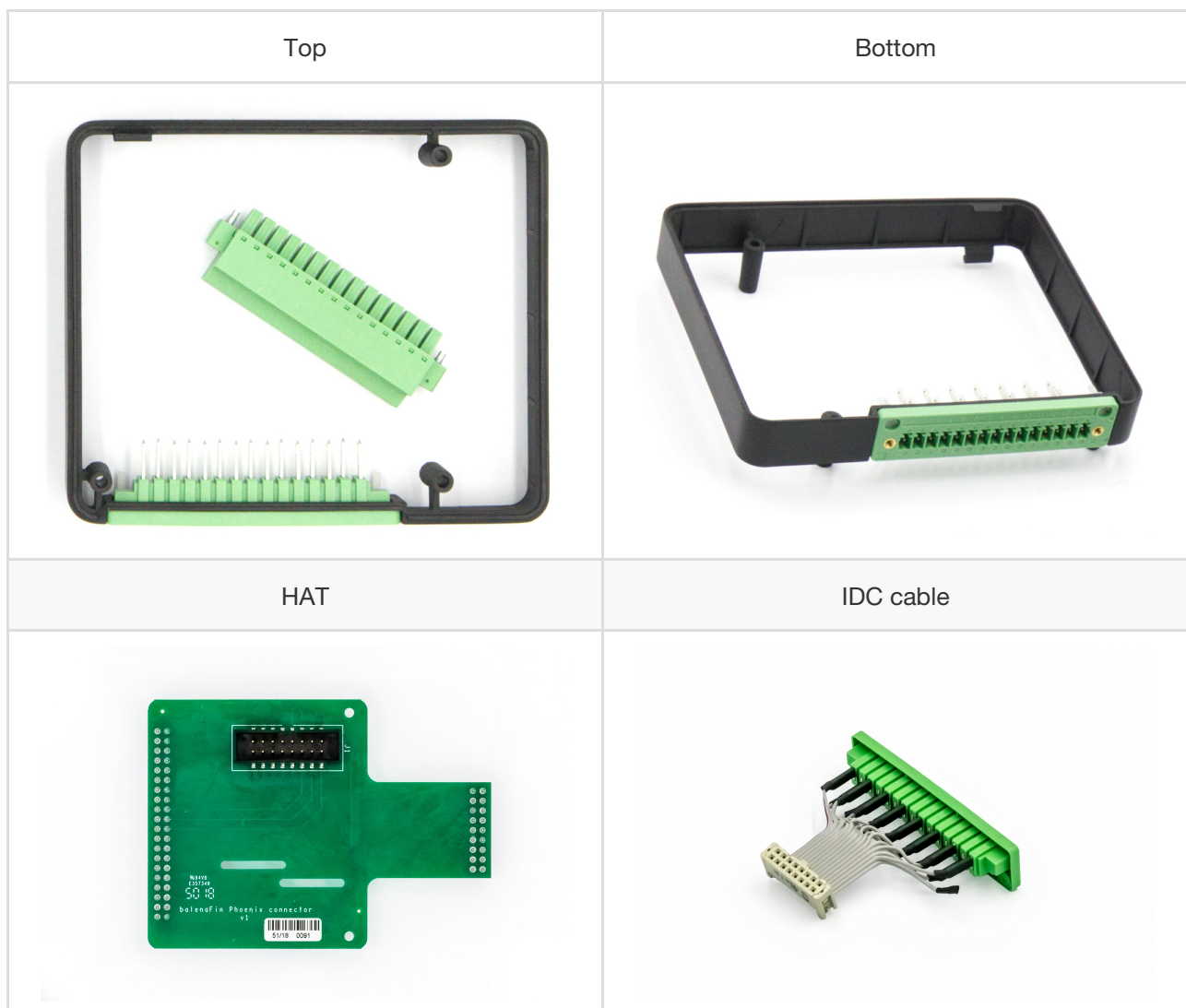
1.1 Standard balenaFin ring



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



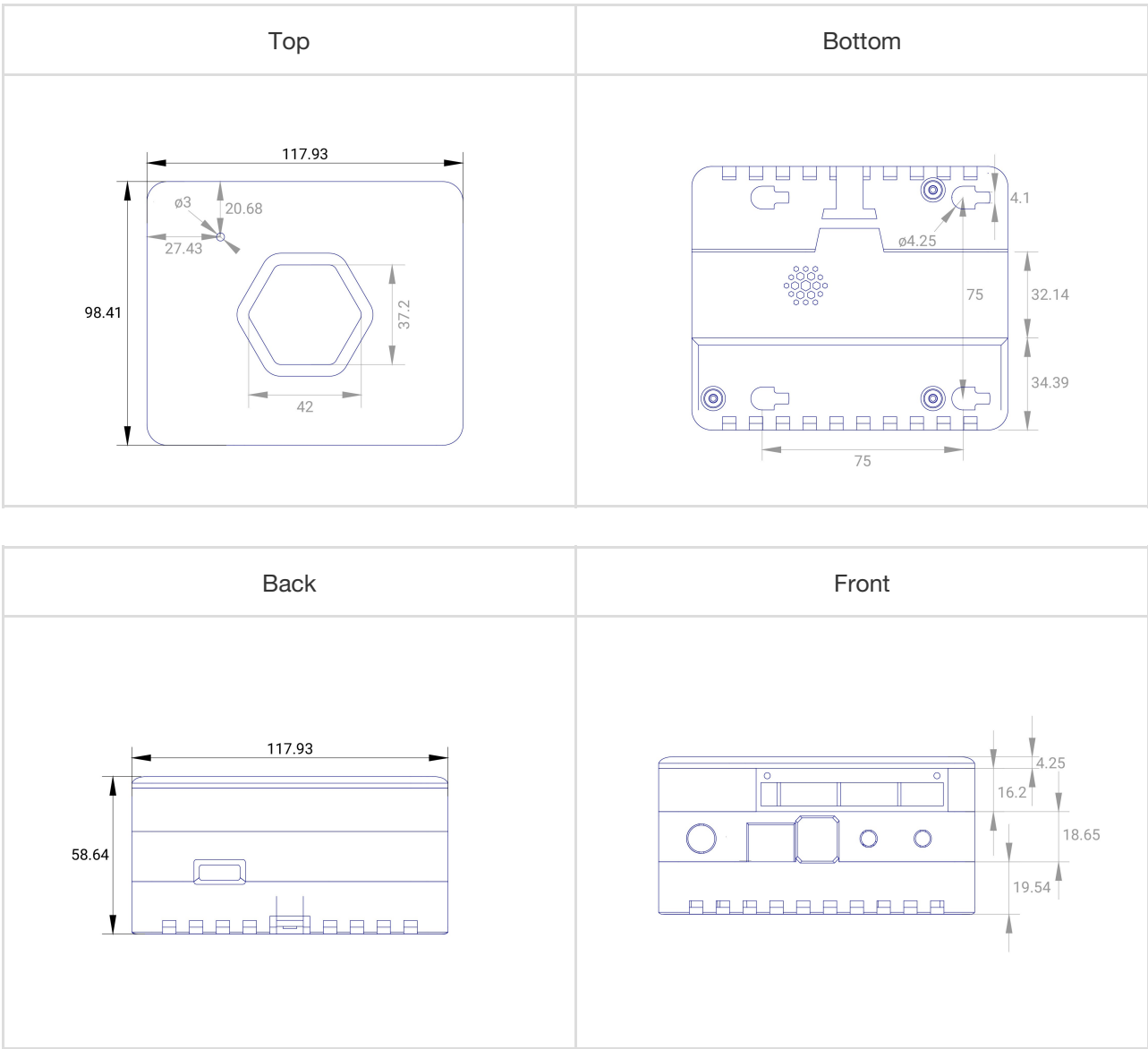
The terminal block ring extends balenaFin I/O headers to the exterior of the case. Comes with a HAT and IDC cable.

1.2.1 Terminal block ring pin map

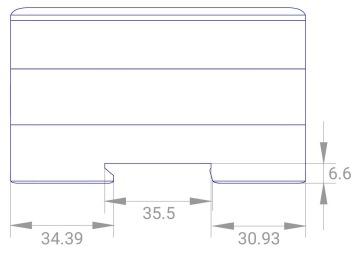
Fin header pin #	Co-processor header pin #	Case terminal pin #	Pin name
2	NC	1	5V
6	NC	2	GND
8	NC	3	BCM14 (TXD)
10	NC	4	BCM15 (RXD)
3	NC	5	BCM2 (SDA)
5	NC	6	BCM3 (SCL)
12	NC	7	BCM18 (PWM0)
16	NC	8	BCM23
19	NC	9	BCM10 (MOSI)
21	NC	10	BCM9 (MISO)
23	NC	11	BCM11 (SCLK)
NC	1	12	PD14
NC	3	13	PA2
NC	5	14	PA3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

2 Mechanical dimensions

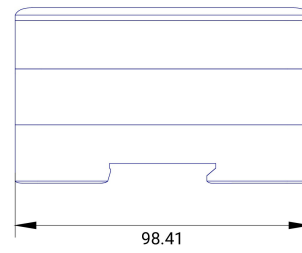
All units are in mm



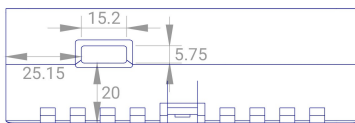
Right



Left



Back ports



Front ports

