🎅 🎄 🎁 Hi, I'm a Bauble! 🎁 🎄 🎅

Merry Christmas 2020

♥Keenan

Once to turn on
Again and again for variety
Long press to adjust brightness
Hold 5s to turn off

Only for hacking
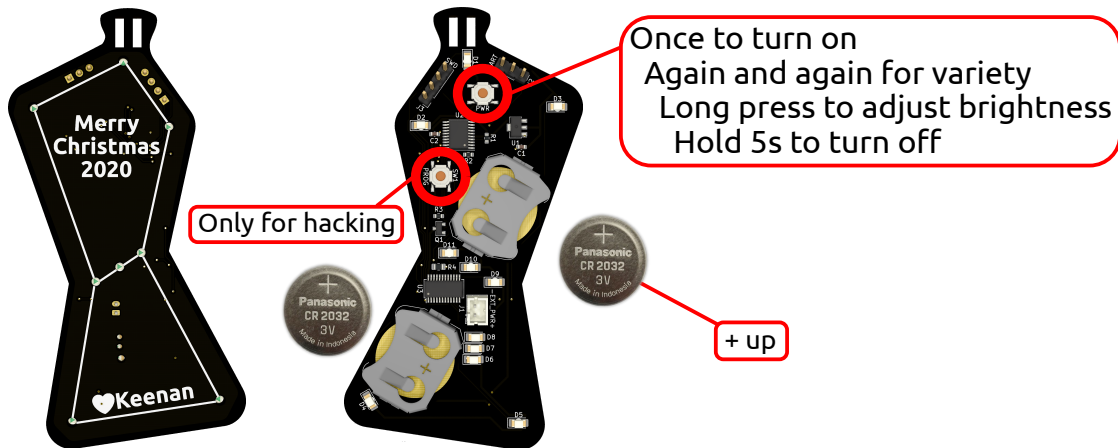
+ up

Everybody knows I fiddle with electronics. Rarely does anyone see any of that stuff. Today, that changes! Making this was merely a vague idea in my head on Dec 4th, sent to fab Dec 6th, and hopefully made it into your hands before Dec 25th. It's been a crunch, but fun to work on something someone else might appreciate.

It depicts the constellation Orion, the stalwart hunter of the winter night sky; an ancient and secular symbol of winter we're all very familiar with. May his presence brighten your holiday season and inspire you to look up on those crisp, clear winter nights.
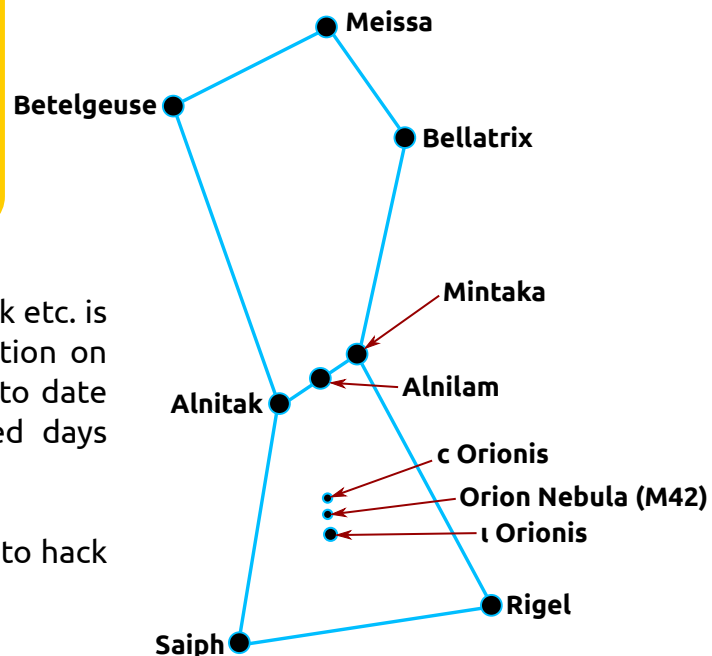
Tech Specs

Batteries: 2xCR2032 (3V)
Battery life: ~30h
Compute: ~20x the Apollo Guidance Computer
Memory: ROM: 1/2xAGC (16KB) **RAM:** 1xAGC (4KB)
LEDs: 11 driven @ 60fps with 16-bit PWM

All the hardware design files, code, and random artwork etc. is up on GitHub, as well as some additional documentation on the design/build process and usage, which will be up to date with what you actually receive (this is being printed days before).

If you're at all interested in hardware, I encourage you to hack on this. I've tried to make it really easy!

Meissa

Betelgeuse

Bellatrix

Mintaka

Alnitak

Alnilam

c Orionis

Orion Nebula (M42)

ι Orionis

Rigel

Saiph

https://github.com/ktims/xmascard2020