

# Bens R2-D2 Electronic Diagram for the Astrocomms Mega Shield Ultra - v1.1 - 10/2021

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The Astrocomms Ultra allows simultaneous connection and use of the Controller and the Smartphone app to trigger the Marcdino and Flthy Holoprojector System. Bevor that you had to decide if you want the app or the controller - or use a switch to toggle between them.

Basically it works like an interpreter between the Body Arduino (running Shadow MD), the Master Dome & Body Marcdinos and the Flthy Holoboard. The Xbee is not longer directly connected to the Marcdino Dome Master. It's plugged into the Astrocomms Mega Shield. Also the Flthy Holoboard is not longer connected to the Marcdino, it receives it's commands from the Astrocomms.

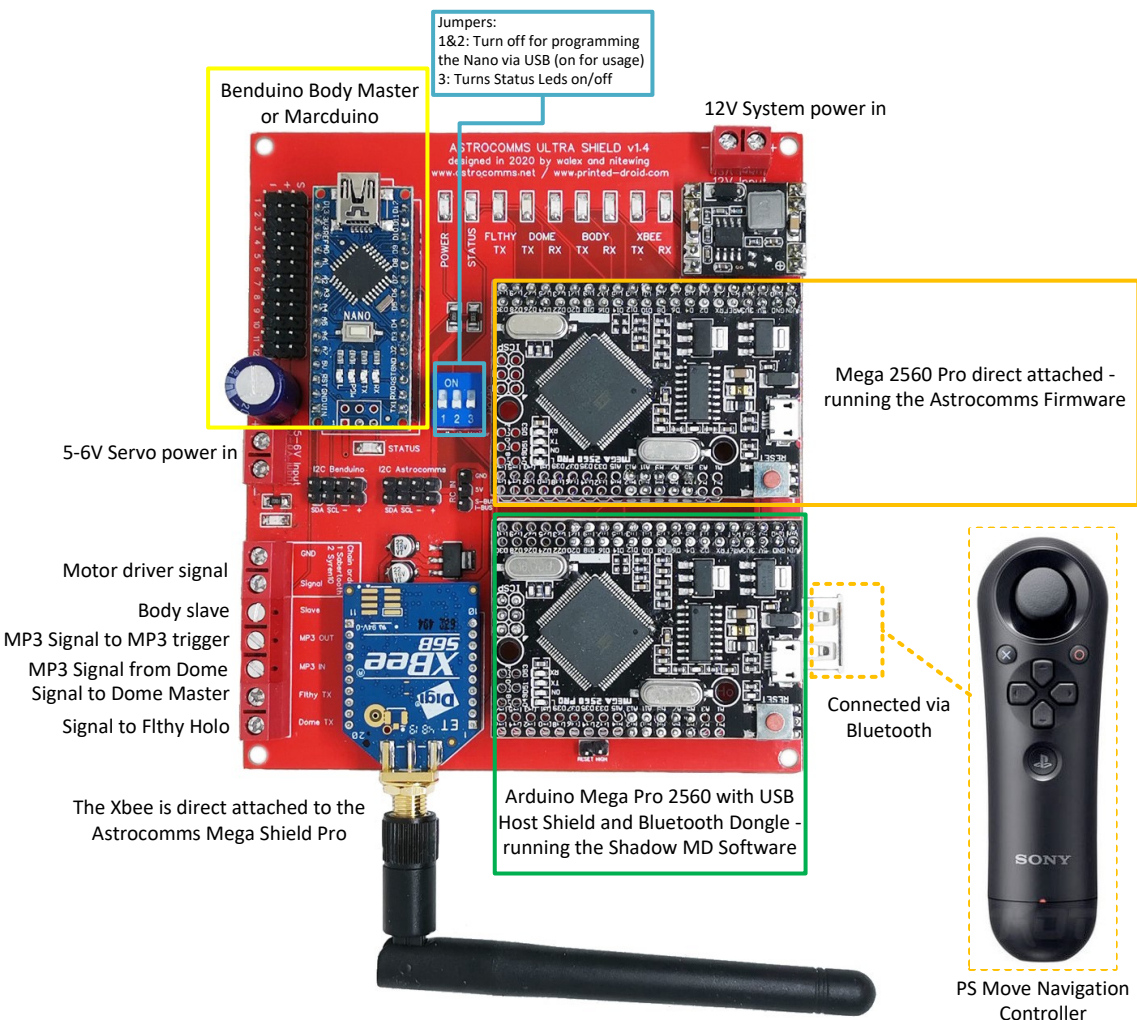
It's working in real time with no noticeable latency! And there are much more features coming ☺

What is the difference between the Astrocomms Ultra and the other Astrocomms?  
The Astrocomms Ultra has the Body Mega, the Xbee, USB host for Bluetooth dongle, and the Body Master on a single circuit board. This makes wiring even easier and safer. In addition, everything will be even more compact than with individual modules.

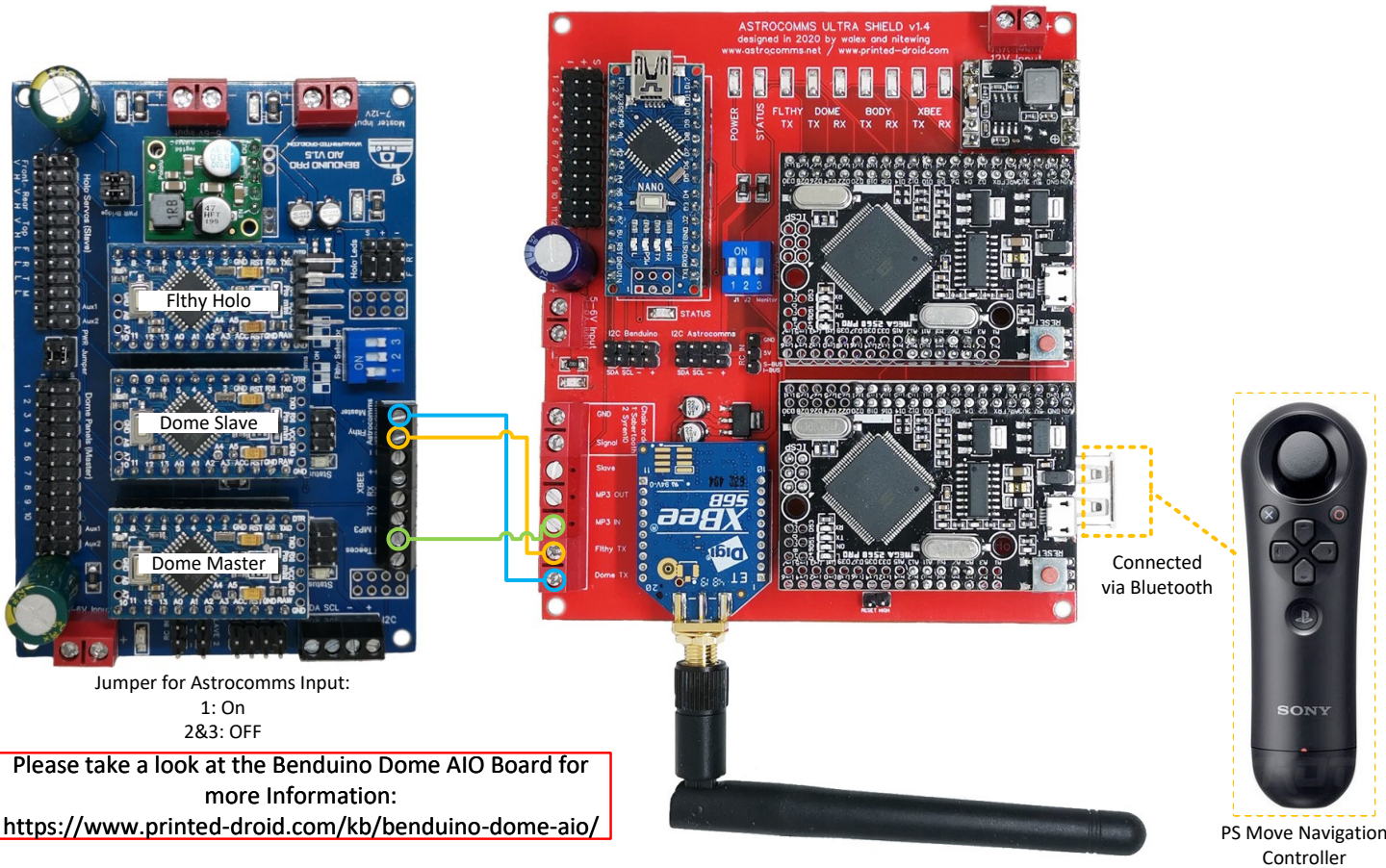
The Astrocomms System Shield was developed 2020 by walex & Nitewing  
Spanish Thread: <http://bit.ly/2RjzG5L>  
English Thread: <http://bit.ly/2NTTtSj>  
<https://www.printed-droid.com/kb/astrocomms-mega-shield/>

Please notice that this is just a basic wiring diagram.  
No servos etc. added as this information can be found in the big diagram

## Basic overview



## Wiring with Benduino Dome AIO:



## Wiring with Marcdinos:

