

INSIDE SKYWATCHER® HAND CONTROLLERS

SYNSCAN V3, SYNSCAN V4



BLUETOOTH FOR TELESCOPE HANDCONTROLLERS

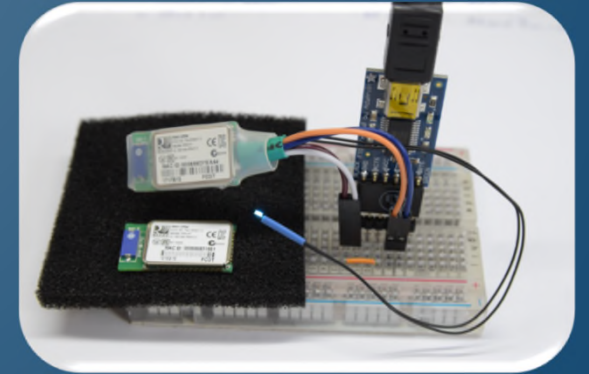
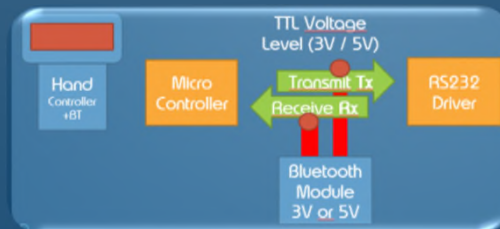
ALL INFORMATION, DOCUMENTS & VIDEOS

HANDCONTROLLER UPGRADE BIBLE

<https://astro.marxram.de/handcontroller-upgrade-bible/>

©Roland Marx

Version 1.0 (22.9.2018)

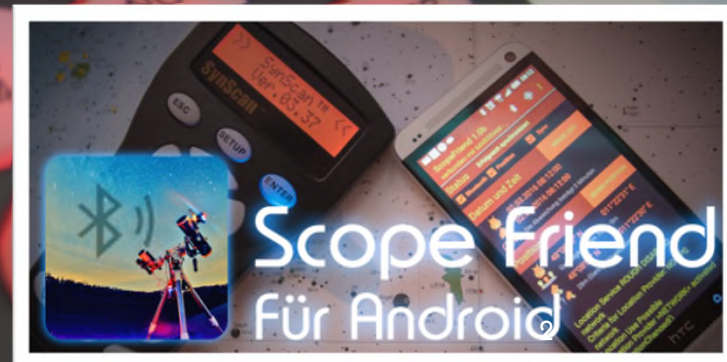


MY FREE APP: **SCOPE FRIEND**

AVAILABLE @ GOOGLE PLAY STORE

Synchronize
Time
Date
Location

<https://play.google.com/store/apps/details?id=de.marxram.astro.scopefriend>



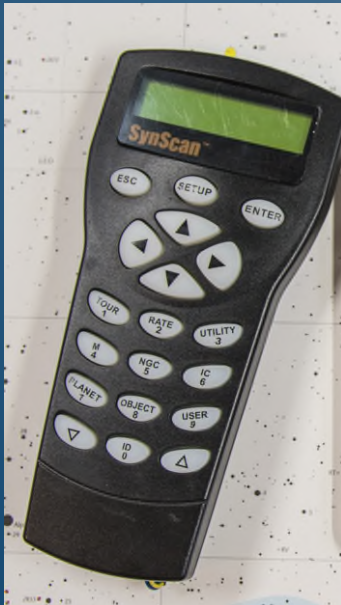
DISCALIMER

- This document is ment as a reference only
- It may also contain some errors like incorrect labels or voltages
- Please doublecheck if possible, check the electronic devices documentation, try to trace electricity (e.g. GND, VCC,...)
- To manipulate your Handcontroller may break it, or it's capabilities to communicate
- You should be experienced in soldering, before you start
- Everything you do, you do at your own risk!

SYNSCAN V3

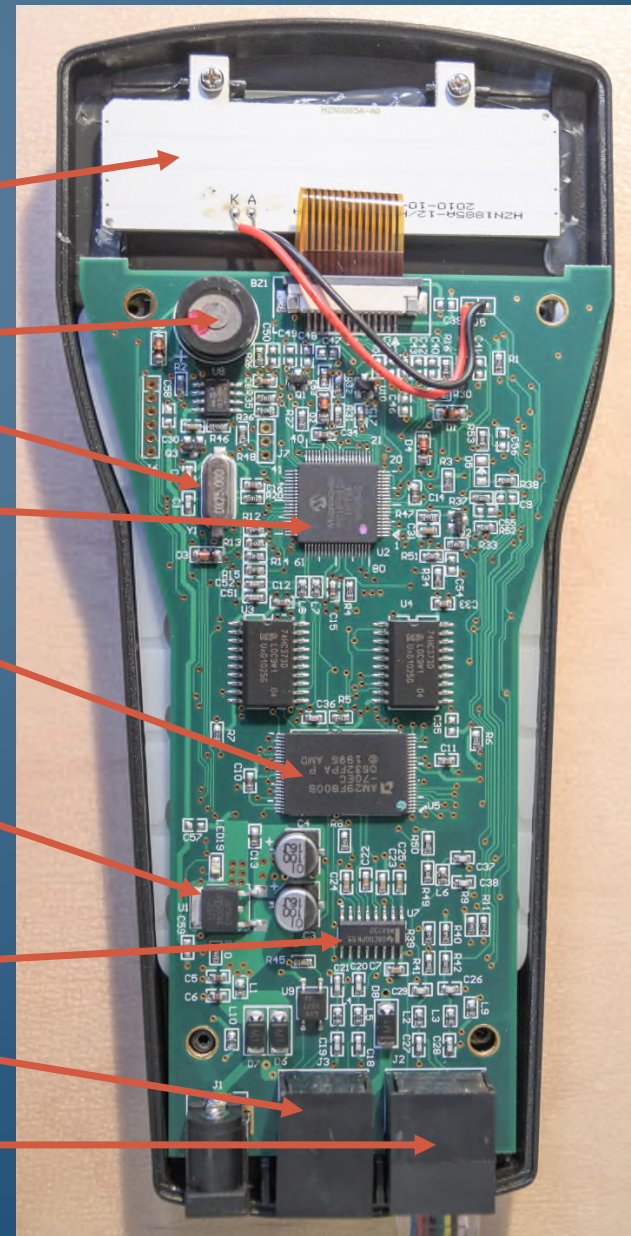
Important Facts

- 5V TTL Logic Levels
- Easy to Upgrade

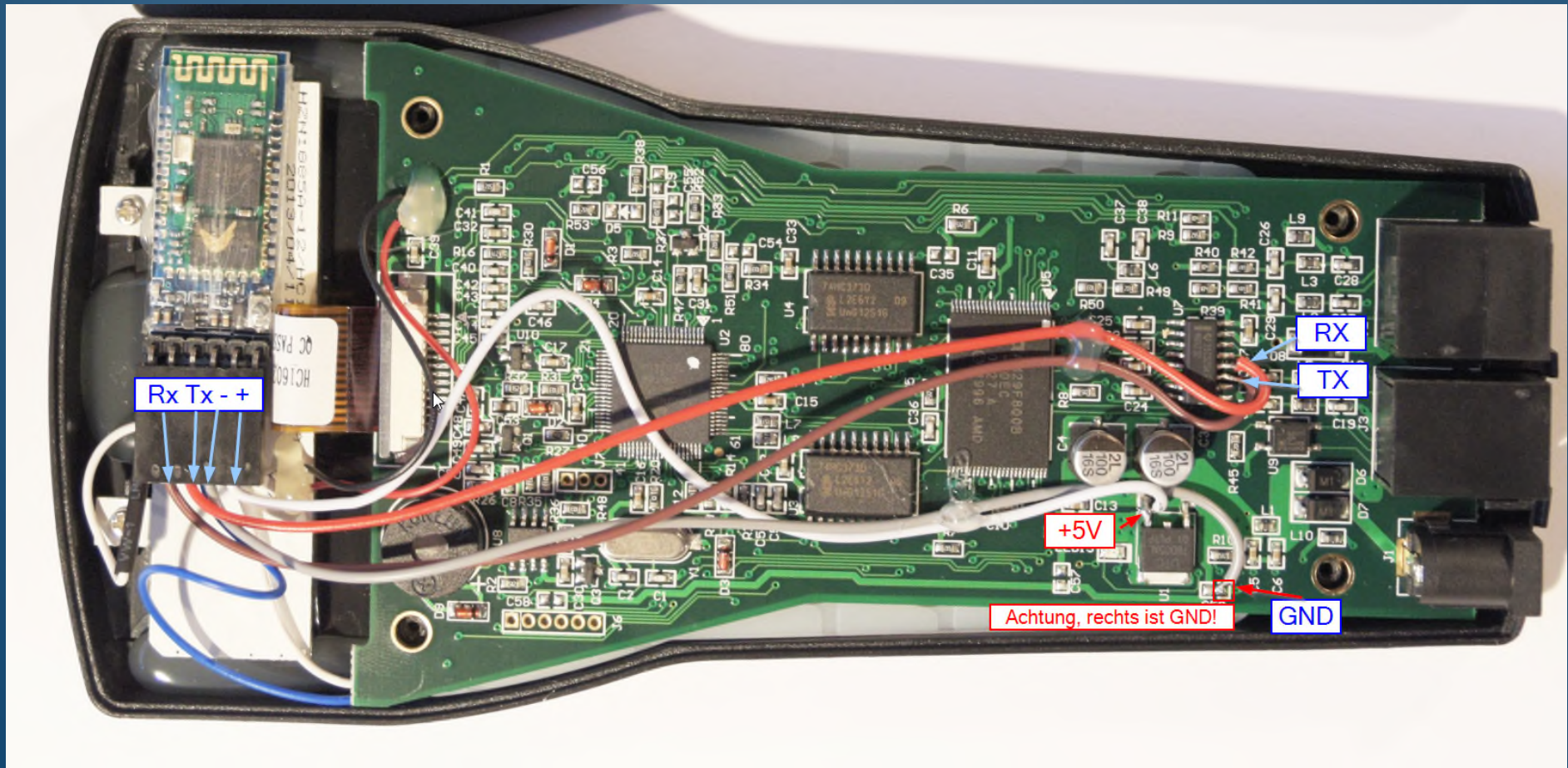


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- Display
- Beeper
- Crystal
- Micro-Controller
- Flash Memory
- 12 -> 5 V
Voltage Regulator
- RS232 Driver
- RS232 Connector
- Telescope Connector



SYSCAN V3 ~ HC-05



SYNSCAN V4

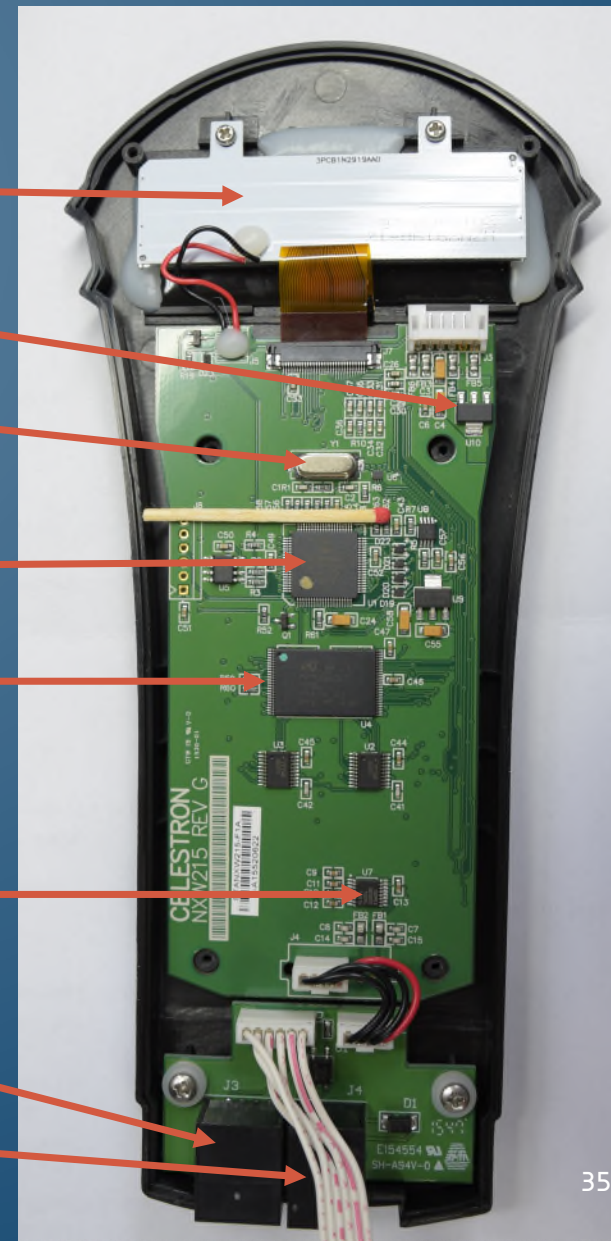
Important Facts

- 3V TTL Logic Levels
- Difficult to upgrade

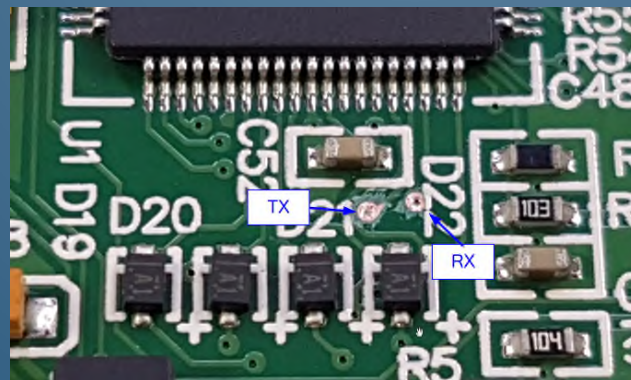
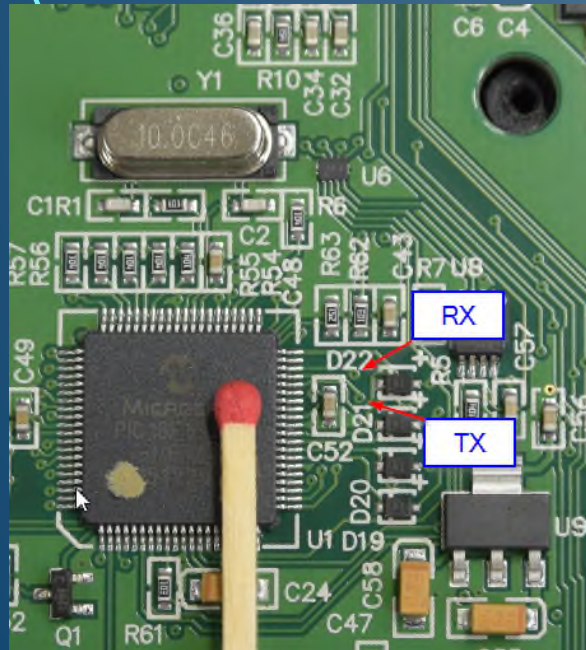


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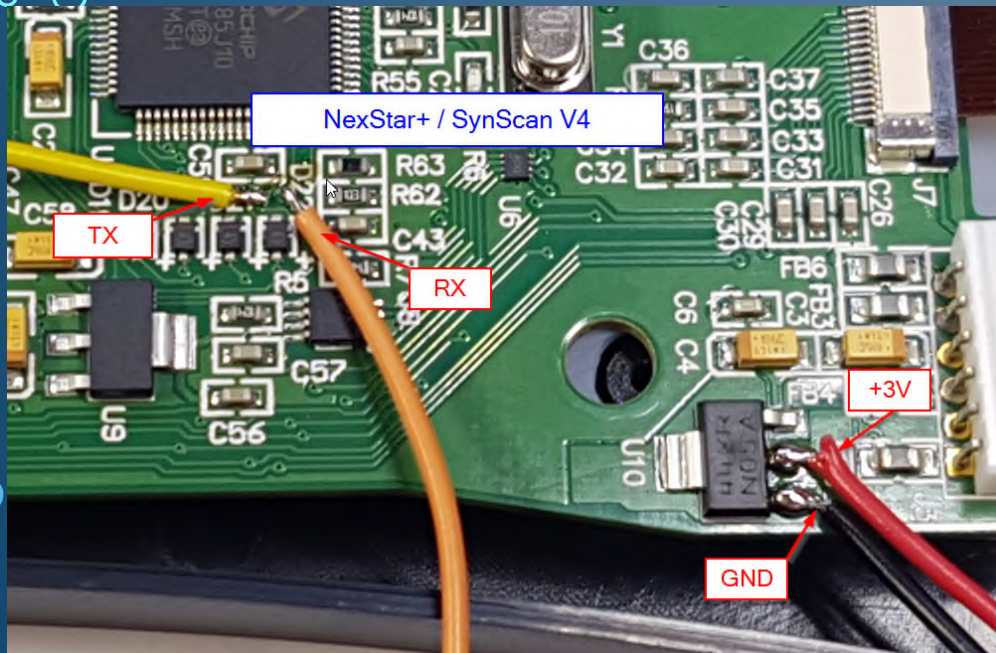
- Display
- 12 -> 3 V
Voltage Regulator
- Crystal
- Micro-Controller
- Flash Memory
- RS232 Driver
- RS232 Connector
- Telescope Connector



SYNSCAN V4 ~ RN41/42



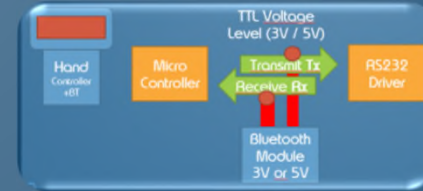
SYNSCAN V4 ~ RN41/42



More Videos and Documents

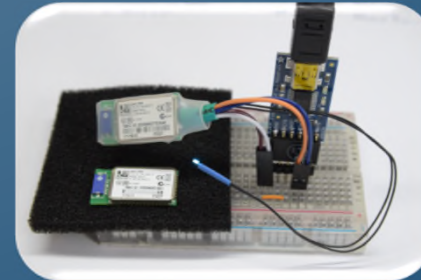
<https://astro.marxram.de/handcontroller-upgrade-bible/>

1. General Information on Upgrading to BT



2. Bluetooth Modules

- Specs
- How to program BT Name, Pin ...
- Status LED



3. Hand Controllers in detail

- Skywatcher, MEADE, Celestron
- HowTo solder guide





GOOD LUCK, CLEAR SKIES & THANKS FOR WATCHING

YOU LIKE MY VIDEOS?

SUBSCRIBE MY CHANNEL + GIVE A THUMBS UP

<http://youtube.com/c/AstroKana1MARXRAM>

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YOU LIKE MY PROJECTS?

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