

# Fysetc Catalyst Bullant

## Übersicht

Catalyst	Bullant
<b>Repo</b> <a href="https://github.com/FYSETC/Catalyst_Kit_V2.0">https://github.com/FYSETC/Catalyst_Kit_V2.0</a>	<a href="https://github.com/FYSETC/FYSETC_Bullant_V1.0">https://github.com/FYSETC/FYSETC_Bullant_V1.0</a>
<b>Image</b> <a href="https://github.com/FYSETC/Catalyst_Kit_V2.0/blob/449f84ea78f707c273e316bcebbfd13e400e57/software/update_voron0_2_20240108.rar">https://github.com/FYSETC/Catalyst_Kit_V2.0/blob/449f84ea78f707c273e316bcebbfd13e400e57/software/update_voron0_2_20240108.rar</a> <a href="https://github.com/FYSETC/FYSETC-Voron-0.2-Pro/tree/main/0.2%20R1%20V1.1">https://github.com/FYSETC/FYSETC-Voron-0.2-Pro/tree/main/0.2%20R1%20V1.1</a>	<a href="https://github.com/FYSETC/FYSETC_Bullant_V1.0/blob/90d78536b823cc0e31b075f608dc90145677ea5/software/Bullant_Armbian_OS_Klipper_Build_in_V1.0.rar">https://github.com/FYSETC/FYSETC_Bullant_V1.0/blob/90d78536b823cc0e31b075f608dc90145677ea5/software/Bullant_Armbian_OS_Klipper_Build_in_V1.0.rar</a>
<b>Hostname</b> maixsense	maixsense
<b>User / Password</b> Default: linaro/linaro, root/root	Default: bullant/armbian, root/armbian
<b>Network</b> Kein Autonegotiation auf 100Mbit	100Mbit
<b>Schaltplan</b> <a href="https://github.com/FYSETC/Catalyst_Kit_V2.0/blob/449f84ea78f707c273e316bcebbfd13e400e57/hardware/CATALYST%20V2.0%20SCH.pdf">https://github.com/FYSETC/Catalyst_Kit_V2.0/blob/449f84ea78f707c273e316bcebbfd13e400e57/hardware/CATALYST%20V2.0%20SCH.pdf</a>	<a href="https://github.com/FYSETC/FYSETC_Bullant_V1.0/blob/90d78536b823cc0e31b075f608dc90145677ea5/Bullant%20V1.0%20SCH.pdf">https://github.com/FYSETC/FYSETC_Bullant_V1.0/blob/90d78536b823cc0e31b075f608dc90145677ea5/Bullant%20V1.0%20SCH.pdf</a>
<b>Pinout</b> <a href="https://github.com/FYSETC/Catalyst_Kit_V2.0/blob/449f84ea78f707c273e316bcebbfd13e400e57/hardware/CATALYST%20V2.0%20PinOut.png">https://github.com/FYSETC/Catalyst_Kit_V2.0/blob/449f84ea78f707c273e316bcebbfd13e400e57/hardware/CATALYST%20V2.0%20PinOut.png</a> <a href="https://github.com/FYSETC/Catalyst_Kit_V2.0/blob/449f84ea78f707c273e316bcebbfd13e400e57/hardware/CATALYST%20V2.0%20E4%BD%8D%E5%8F%87%E5%9B%BE.pdf">https://github.com/FYSETC/Catalyst_Kit_V2.0/blob/449f84ea78f707c273e316bcebbfd13e400e57/hardware/CATALYST%20V2.0%20E4%BD%8D%E5%8F%87%E5%9B%BE.pdf</a>	<a href="https://github.com/FYSETC/FYSETC_Bullant_V1.0/blob/90d78536b823cc0e31b075f608dc90145677ea5/Bullant%20V1.0%20PINOUT.pdf">https://github.com/FYSETC/FYSETC_Bullant_V1.0/blob/90d78536b823cc0e31b075f608dc90145677ea5/Bullant%20V1.0%20PINOUT.pdf</a>
<b>CPU / RAM</b> CM68 core based on RK3568 Quad Core 2GB Ram	Allwinner R329 Dual-Core Cortex-A53 ARM CPU; 512MB DRAM
<b>eMMC Storage</b> 32GB	-
<b>USB</b> 2x USB3.0	1x USB2.0
<b>µController</b> STM32F446	RP2040
<b>Treiber</b> TMC2209	TMC2209 + GC6609
<b>RGB</b> vorhanden	vorhanden
<b>Fans</b> 3x geregelt bis 24V	1 Fan
<b>Temp</b> 3x Temp	1x Temp
<b>CAN Bus</b> vorhanden	-
<b>Sonstiges</b> I2C, SPI, extra 2x UART	-

## Besonderheiten

- **M36 Boards nicht Pinkompatibel** (Anschluss)
- keine root Partition mit armbian Konfig
- Image für Catalyst laut Pi Imager defekt weil Bytesumme nicht durch 512 teilbar
- Catalyst Board geht bei 100Mbit Netzwerk nicht Online!!
- Zugriff auf Bullant per seriellen Port (für Init) → unpraktisch
- Bullant macht direkt Update nach Erststart → CPU geblockt
- installiertes octoeverywhere → Remote Access

## Linux Lookaround

- `sudo apt update && sudo apt upgrade -y && sudo apt install -y git silversearcher-ag wavemon hexedit sudo tcpdump iptraf mc htop dcfldd nano usbutils ranger tldr ncd u-can-utils multital fd-find lsof xllvnc terminator minicom cutecom joystick jstest-gtk && mkdir -p ~/.local/share && tldr -u`
- `cat /etc/os-version`
- `uname -a`
- `free, htop` → Systemauslastung

## Doom compilieren (chocolate)

- basierend auf [https://www.chocolate-doom.org/wiki/index.php/Building\\_Chocolate\\_Doom\\_on\\_Debian](https://www.chocolate-doom.org/wiki/index.php/Building_Chocolate_Doom_on_Debian)
- `sudo apt install -y gcc make libsdl2-dev libsdl2-net-dev libsdl2-mixer-dev automake autoconf libtool git pkg-config`
- `git clone https://github.com/chocolate-doom/chocolate-doom.git`
- `cd chocolate-doom && ./autogen.sh`
- `make -j4`
- `sudo make install`

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