CONTENTS:

PAGE1 - CONTENTS

PAGE2 - POWER, CM4, MIC, USB,SD CARD

PAGE3 - CSI, DSI, HDMI,SPEAKER,GYRO,MCU

REVISION HISTORY:

11/30/2018 - V1.0 - Initial Version

7/10/2018 - V1.1 - Change USB\SD\HDMI connectors and optimize the fist version .
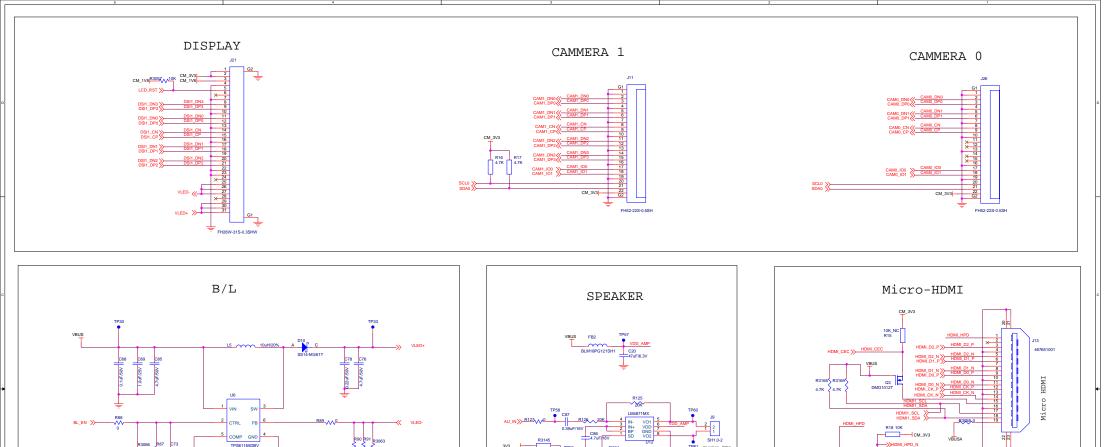
2/17/2020 - V1.2 - Change battery charge with NTC wire and D17\D18 symbol ,add BT_DIS.
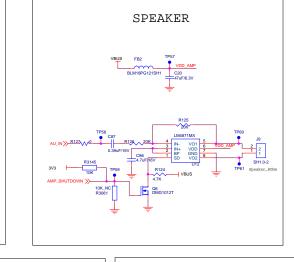
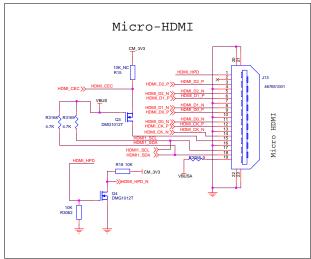9/10/2020 - V1.3 - Add 22 Ohm resistors to SD CLK and data line for ESD protection;
                    Change LCD RST pull up voltage to 1V8.
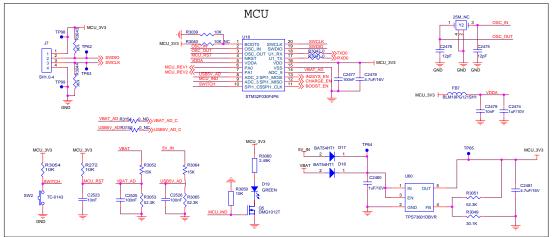
9/24/2020 - V1.3 - Change Camera and HDMI share one I2C Line ;

11/11/2020 - V2.0 - Change CM3 TO CM4 and all the peripherals ;

DISPLAY

CAMMERA 1

CAMMERA 0

B/L

7P3S

SPEAKER

Micro-HDMI

MCU

GYRO

ADDR:1101000

TOUCH Panel

J2
Type C-16
TP41
F1
6V/2A
5V_IN
R3161 0_NC
U601
ESD
IP4234CZ6
USBS_DN
USBS_DP
R3162 0_NC
R3134 5.1K
R3133 5.1K
C2 47uF/6.3V
TP92
TP93
VBUS
F2
6V/0.5A
VBUSA
USB1_DM
USB1_DP
R122 0_NC
R123 0_NC
TP52 VBUSA
U5
ESD
90 Ohm
90 Ohm
J14
USB A
USB-A

BATTERY
TP43
VBUS
5V_IN
TP46
C2483 2.2uF
R3087 2.49K
R3086 31.6K
R3088 10K
C2484 47uF/6.3V
C2485 10uF/16V
C2486 10uF/16V
C2487 47uF/6.3V
C2488 10uF/16V
C2489 10uF/16V
U597
MP2636GR
L6341.5uF 2A
R3089 20m/1W
VBAT
C2490 10uF/16V
C2491 10uF/16V
IN2SYS_EN
TP45
C2492 100nF
CHARGE_EN
BOOST_EN
D20 GREEN
D21 GREEN
R3095 2.49K
R3097 2.49K
R3100 2.49K
TP44
R3098 0
TP47
TP91
J23
PH2.0-3
Battery
R3101 10K_NC
R3137 36.5K
VBUS
2 wires battery need remove 10K res !!!
C2493 100nF
R3103 30.1K
R3105 10K
R3108 10K
R3106 82.5K
R3107 39.2K
EN=H->CHARGE
MODE=H->BOOST
CHARGE MAX=1.45A
IN MAX=2.1A
OUT MAX=2.8A

J25
PCIE
HDMI1
HDMI0
DSI0
DSI1
CAM0
DF40C-100DS-0.4V
USBOTG_ID
TP94
J24
ETH
CAM1
3V3
R3 2.49K
D1 RED
Pi_nLED_Activity
TP84 EEPROM_WP
TP89
TP90
CM_3V3
R3157 0
CM_5V
600mA Out
CM_1V8
TP83
TP77
TP78
TP79
TP80
DF40C-100DS-0.4V
Audio
MCU
R3198 0_NC GPIO25
R3193 0 GLOBAL_EN
R3156 0 nRPIBOOT
R3201 0_NC GPIO16
R3194 0 GPIO14
R3195 0 GPIO15
3V3 FB12 BLM18PG121SH1 CM_3V3
VBUS FB10 BLM18PG121SH1 CM_5V
C2505 47uF/6.3V 3216
Q7 DMG1012T
USBOTG_ID
R3196 10K
R3197 0 GPIO12

J28
FH52-6S-0.5SH
VBUSA
USB3_DM
USB3_DP
3V3
C17 100nF
U602
FSUSB42MUX
SEL=0:D<->HSD1
SEL=1:D<->HSD2
USBH_DN
USBH_DP
USBS_DN
USBS_DP
R3164 10K
R3163 10K
R3172 0
USBOTG_ID
MIC2
U501
SPU0410HR5H
MIC1
J27
MIC4.5
PUSH-PUSH SD CARD
3V3_SD
R3153 0
C24 4.7uF/16V
J16
473521001_sd
uSD CARD
SD Card
R3132 10K
U600
HS8836A
TP100
TP101
500mA In
Close to Pin13
Close to Pin14
R3149 10K
U3
HS100B
U580
AT93C46
REG3V3
C2511 100nF
C2513 4.7uF/16V
FB13
FB8
FB9 BLM18PG121SH1
TP95
TP81
TP97
AU_IN
D22 GREEN
D23 RED
R3178 2.49K
R3179 2.49K
GND