Power Tree

Main Input Connector 12V/24

VIN_24V@1.2A
VIN 12V@2.5A

OV,UV Protection LTC4365ITS8#TRMPBF

BUCK CONVERTER LM61460AASQRJRRQ1 (3.3V@6A)

BUCK-BOOST (19V@2A) LTC3115EDHD-2#PBF

VDD_19V@0.2A

180mA

LCD Display Conn

167mA

BUCK CONVERTER LM60430ARPKR (5V@3A)

VDD_5V@1.01A

55mA — HDMI Type-A Connector

360mA — 2x CAN Transceiver TCAN1051HGVDR

500mA — Current SW TPS2052BDGNR — USB Type-A Connector HOST

PMIC TPS6521908

Rail	Block
PVIN_B1	BUCK1 (0.85V@3.5A)
VSYS	
PVIN_B2	BUCK2 (1.8V@2A)
PVIN_B3	BUCK3 (1.1V@2A)
PVIN_LDO1	LDO1 - Bypass (3.3V/1.8V@0.4A)
PVIN_LDO2	LDO2 (1.2V@400mA)
PVIN_LDO34	LDO3 (1.8V@300mA)
GPO2	LDO4 (2.5V@300mA)

VSYS_3V3@4.3A

From B2 DVDD1V8

POWER SWITCH (6A) TPS22965DSGR EN

VDD_3V3@1.5A

VDD_CORE_0V85 — 2A
DVDD1V8@1.01A
VDDS_DDR_1V1@1.08A — 175mA
VDDSHV5_MMC_1V8
VDDA_1V8 — 84mA

LDO (1.8V@500mA) TLV75518PDQNR — 400mA

47mA

MPU AM62X

- VDD_CORE / VDDR_CORE
- DVDD1V8 (VDDSHVy)
- VDDS_DDR
- VDDSHV5_MMC
- VDDA_1V8, VDDA_MCU
- VPP (fuse)
- DVDD3V3 (VDDSHVx), VDDSHV_MCU

909mA — LPDDR4 MT53E1G32D2FW-04G AIT.B — 50mA
149mA — eMMC (NAND) Flash MTFC32GBCAQTC-AIT — 37mA
74mA — EEPROM M24512-RMN6TP — 8mA
595mA — Wireless Module WiFi/Bluetooth WL1837MODGIMOCT — 5mA
181mA — HDMI Transmitter ADV7511WBSWZ — 0.60mA
5mA — AUDIO CODEC TLV320AIC3107IRSBR — 111mA / 100mA
0.55mA — MIC ICS-43434
0.02mA — RS232 Transceiver TRSF3221EIRGTR
12mA — 2x RS485 Transceiver SN65HVD1781AQDRQ1
0.034mA — Environment Sensor BME688
0.02mA — WatchDog & Reset TPS3431SDRBR
0.11mA — RTC BQ32000DR

2xEthernet Phy(RGMII) DP83867IRRGZT

268mA
204mA

VDD_1V0@0.268A
VDD_2V5@0.5A

LDO (1V0@500mA) TLV75510PDQNR
BUCK REG (2.5V@1A) TPS62824DMQR — 474mA

Camera Module Conn

283mA
181mA
99mA
117mA

VDD_1V15@0.285A
VDD_2V8@0.4A

LDO (1V15@500mA) TLV75801PDRVT
BUCK REG (2.8V@2A) TPS62825DMQR — 425mA