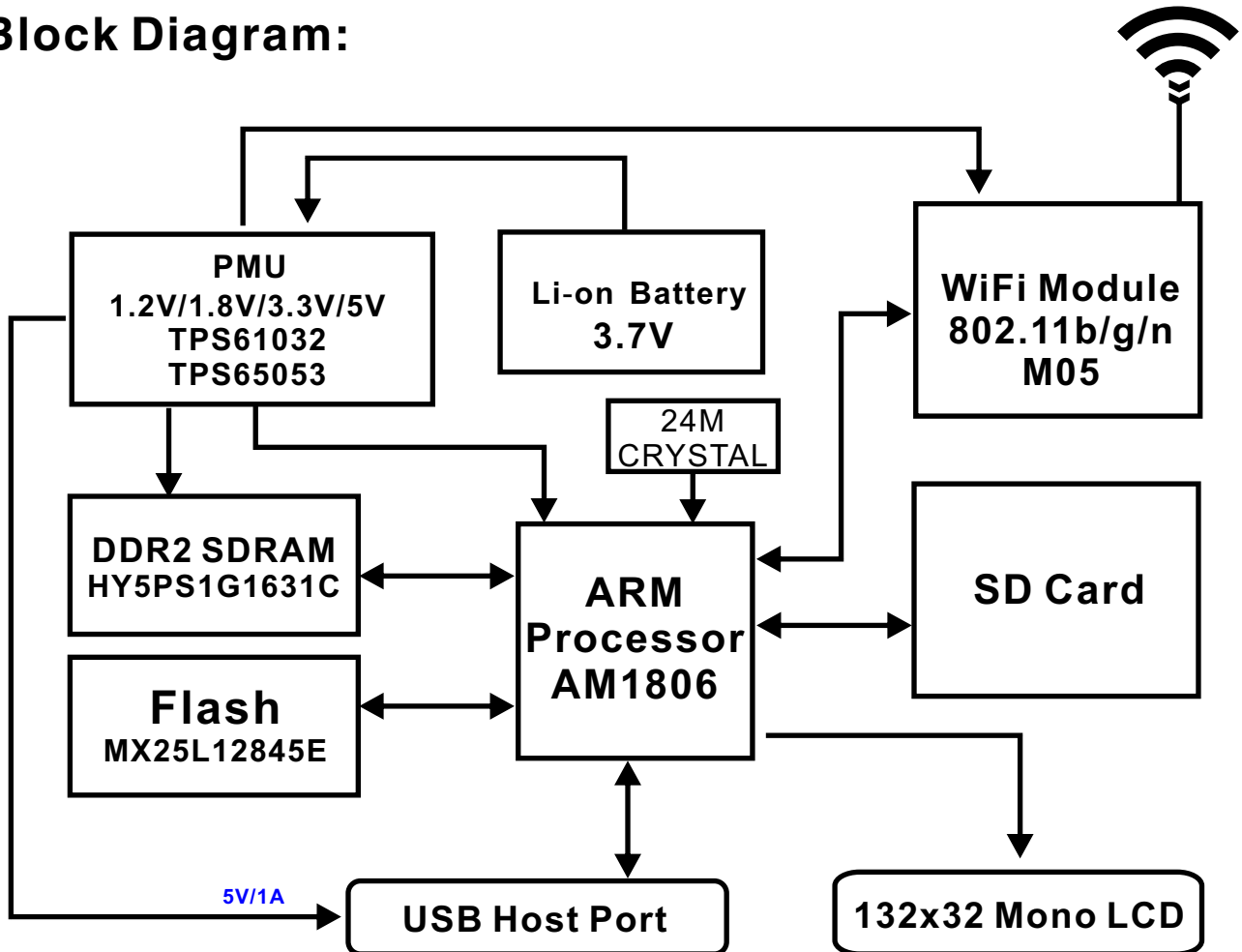# CameraMator

1.Block Diagram:

2.Description

Flash (MX25L12845) is used to store software code.
DDR2(HY5PS1G1631) is used to provide RAM space when system is running.
WiFi Module(M05) is used to send and receive WiFi data package.
Processor(AM1806) is system core. It's driven by a 24M crystal.
LCD is used to display system information.
USB Host Port is used to charging for USB devices.Can not used swap data.
SD Card is used to store user files including photos and videos.

After power up, processor will load software from Flash to DDR2. Then,
processor monitor WiFi module to receive wireless network request. Once a
wireless network request was received, processor will transmit data to
 WiFi module. During transferring, LCD will display WiFi
information including SSID and IP address.
 Operation Frequency: 2412MHz~2462MHz (802.11b/802.11g/802.11n(H20))
                      2422MHz~2452MHz (802.11n(H40))
 Channel numbers: 11 for 802.11b/802.11g /802.11n(H20) 7 for 802.11(H40)
 Channel separation: 5MHz
 Modulation technology: (IEEE 802.11b) Direct Sequence Spread Spectrum (DSSS)
         (IEEE 802.11g/802.11n) Orthogonal Frequency Division Multiplexing(OFDM)
 The antenna is integral antenna,the max gain is 2 dBi.