MOORESCLOUD HOLIDAY HARDWARE ARCHITECTURE

REVISION 2 – 18th JULY 2013

i.MX233

3.3V 454MHz

Linux

Atmega 328

5.0V 16MHz

Arduino

MICRO SD
SSP1

SDRAM

WIFI
Power control via
GPIO17 (N/C)

JTAG

SJTAG

I2C PORT

EXPANSION
GPIO4-7

EXPANSION
A0-A3

SERIAL

| AUART1_TXD | D1 (RxD) |
| AUART1_RXD | D0 (TxD) |

SPI

GPIO20 (SSP2 MOSI)	D11 (MOSI)
GPIO24 (SSP2 SCK)	D13 (SCK)
GPIO19 (SS)	D2 (INT0)
GPIO0 (SSP2 MISO) 1 0	D10 (SS)
N/C	D12 (MISO)

STATUS

| GPIO23 | D8 (ACK/BUSY) |
| GPIO16 | RESET |

GPIO1	BUTTON 1	D5
GPIO2	BUTTON 2	D6
GPIO3	BUTTON 3	D7

I2C

I2C EEPROM

DUART_RxD   DUART_TxD

D3 (INT1)   D4

DEBUG PORT

3.3V to 5V level shifters
(bi directtional except for MOSI & SCK)

WS2811 LED STRING