

C1 Reader Technical Diagram

Refer to Schematic for Further Information

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KEY

Ground Pin (GND)

ESP32

RTC

SD Card

Power (Entire Board)

Power (When Cut in Half)

Enable Power (When Cut in Half)

C11 Connector Pins

SPI & GIOPs & Extra Chip Pins

External LEDs Jumpers

3.3V
RST
GIOP36
GIOP39
GIOP34
GIOP35
GIOP32 (MISC)
GIOP33 (ACT)
GIOP25
GIOP26
GIOP27
GIOP14
GIOP12
GND
GIOP13
GIOP9
GIOP10
GIOP11
5V (Power)

GND
MOSI
SCL
GIOP1
GIOP3
SDA
GND
MISO
SCK
GIOP5
GIOP17
GIOP16
GIOP4
GIOP0
GIOP2
GIOP15
GIOP8
GIOP7
GIOP6

To be used for testing or an additional feature

CS1
CS2
CS3
CS4
CS5
CS6
SCLK
SDI
SDO
GIOP9
GIOP10
GIOP6
GIOP7
GIOP8
GIOP15
GIOP2
GIOP0
GIOP4
GIOP16
SMI-23 (Last Pin on Chip 1)
SM2-23 (Last Pin on Chip 2)
SM3-23 (Last Pin on Chip 3)
SM4-23 (Last Pin on Chip 4)

5V (Power)
GND
SQW
SCL
SDA

Example Use of C1 Reader in Field

The C1 Reader collects and stores the sensor data
This Data is later uploaded to VideoSync for analysis

Example of how to use LED Jumpers

(J10-J12, J13-J15)

- The 6 total jumpers are to be used for external LEDs on the C1 Reader box for visibility on the Power/MISC/Activity lines.
- MISC/ACT can be turned on with the ESP32 respective pins (GIOP32/GIOP33)
- The on-board LEDS on the back work even if no external LED is connected.

Example of Basic Hook-Up

(ESP 32 / SD Card / RTC)

C1 Connector

Features 104 pins to be soldered to the middle jumpers (Labeled AMP201532-C1_Tap)

C11 Connector

Features 20 extra pins to be wired and soldered to the J2/J8 headers