+3V3

3V3

GND

GND

+3V3

R7
D330R
RED-0805

Red Power LED

GND

+3V3

R3
10K

R8
D330R
CLEAR-BLUE-0805

Blue Tx LED

GND

+3V3

U$1
ESP8285

VDDA	0
VDDA'	TX0-1
VDD3P3	TX1-2
VDD3P3'	RX0-3
VDD_RTC	4
VDDD	5
VDDPST	SDCLK-6
VDDPST'	SDD0-7
	SDD1-8
LNA	SDD2-9
	SDD3-10
XTAL_OUT	SDCMD-11
XTAL_IN	MTDI-12
	MTCK-13
TOUT	MTMS-14
	MTDO-15
CHIP_PU	XPD_DCDC-16
RES12K	
EXT_RSTB	GND

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

VDDRTC

+3V3

+3V3

C4
100nf

C5
10UF 6.3V

GND   GND

R5
10K

R2
10K

U$3

PCB_ANTENNAAN043

GND

C1   7PF

Q1
FA-128
1   3
2   4

C2
10pf

C3
10pf

GND   GND   GND

TOUT

CH_PU

GND

PROG

1
2
3
4
5
6

3.3V
TX->RX
RX->TX
GPIO0
Reset
Gnd

Programming connector

GND

0R
R4

For deep
sleep

R1
12K

R6
10K

GND   GND   GND

Essential pins for programming and running
VDD pins = +3.3V (3.0-3.6V)
CH_PD   = H (10k pull-up)
IO15   = L (10k pull-down)
Tx0-IO1 = To Rx of programmer
Rx0-IO3 = To Tx of programmer
IO0   = To programmer (Nodemcu circuit)
Reset   = To programmer (Nodemcu circuit)

Mini-Board for ESP8285

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Rev 1.0

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