LED — addressable RGB

RTC — Chrystal for precise sleep time

EEPROM — I2C 256Kb

Reset

ANT — Fractus slim reach

MCU — ESP32-Pico-D4 2M Flash

RAM — 64Mbit

CONN — M.2 E-key. Proprietary

DIM — 22x30mm

C5
C3 C2
L1
C6
U1
C7
Y1
C8
C4
R2 R3
RST
R4
boot
R1
U3
v1.0 gen.1
esp32-pico-d4
C1

3.3V through Bus

USB/TTL through Bus

PIN	GPIO	ESP
P23	IO0	GPIO0
P18	IO12	IO1
P14	IO25	IO2
P38	IO19	IO3
P24	IO4	IO4
P5	na	IO5
P20	IO13	IO6
P42	IO21	SDA
P39	IO22	SCL
P41	IO1	modTX
P40	IO3	modRX
P15	IO26	LED-SD
P16	IO27	LED-CK
P9	EN	EN/RST

v1.0 gen.1
esp32-pico-d4

RST **boot**

Top	gen.1	Bottom
GND	1	
D+	3	2 — 3.3V
D-	5	4 — 3.3V
GND	7	
GPIO0	23	22
	33	32
		38 — IO4
		40 — modTX
		42 — modRX
		44 — IO3
		48 — D-selec
IO5	53	
IO6	55	
		58 — SDA
		60 — SCL
		64 — RST/EN
		68 — IO2
		70 — IO1
		72 — 3.3V
		74 — 3.3V
GND	75	