

NS-CLW01 Circuit Description

FM ANT

Function: FM receive antenna

IIC bus

Function: command communication channel between MCU and RADIO IC

AM/FM/WB RADIO RECEIVER

Part Name: Silicon Lab chip Si4736

Location: IC3

Function: AM/FM/WB RADIO RECEIVER IC

POWER AMPLIFIER

Part Name: UTC chip UT2822

Location: U2

Function: 1W BTL audio power amplifier IC

315MHz OOK/ASK RECEIVER

Part Name: PTC chip PT4316

Location: IC4

Function: outdoor temperature receive by 315MHz OOK /ASK radio.

RX ANT

Function: 315MHz OOK/ASK RECEIVER antenna

MCU

Part Name: Microcontroller ELAN chip

Location: IC5

Function: clock, LCD display, radio control, alarm, temperature detect, key, power manage, sleep and so on.

LDO Regulator

Part Name: RICHTEK RT9013

Location: IC2

Function: clock, 3.3V.LDO Regulator

TEM DATA

Function: outdoor temperature receive data

LCD Display

Function: EBT LCD display for all function, and with blue backlight

AC power

Function: AC 120V input by line transformer, output 6V 500MA,

TEMP RECEIVER

Function: NTC, indoor/outdoor temperature sensor,