SSA-S2000V operation Description

SSA-S2000V is a Proximity Reader and Controller with Keypad.

1. RF and Control Unit

1.1. Power Supply & Regulator
- SSA-S2000V uses DC 12V and DC 5V.
- If SSA-S2000V is supplied DC 12V, U6(CAT7107) will convert DC12V to DC 5V.

1.2. Clock
- U2 (Pin18, Pin19) use X1(11.0592MHz clock) with C5 and C6.
- U13 (Pin15, Pin16) use X2(4MHz clock) with C22 and C25.

1.3. When the TAG is near the antenna, the received signal will be filtered, amplified, pulse shaped and amplitude compared. The result signal goes to U13 (Pin7) from U9 (Pin7).

1.4. When U13 is received signal from U9 (Pin7), it decodes the signal and sends data in Wiegand format through Pin11 and Pin12 to connected main controller (U2, PIN14). Main Controller (U2, PIN15) is received signal from external Reader.

1.5 Key Scan Control
- To scan Key Pad, signal from U2 (Pin28-31) and then go to JP5 with R20-R23.
- The returned signal, come from JP5 and then go to U2 (Pin25-27).