

The image shows two pin connection diagrams for HC-5557 modules. The top diagram is for the HC-5557-2*6AW module, which has 12 pins. The bottom diagram is for the HC-5557-2*7AW module, which has 14 pins. Both diagrams show connections to GND, VIN, and various control and data lines.

HC-5557-2*6AW Pin Connections:

Pin	Signal
1	ADC_IN_5
2	FAN_RELAY_OUT
3	FUEL_PUMP_RELAY_OUT
4	ADC_IN_1
5	
6	
7	
8	
9	
10	
11	
12	

HC-5557-2*7AW Pin Connections:

Pin	Signal
1	INJ_OUT_4
2	STEP_A1
3	STEP_A2
4	IGN_OUT_PRE_4
5	IGN_OUT_PRE_2
6	IGN_OUT_PRE_3
7	ADC_IN_2
8	
9	
10	
11	
12	
13	
14	

Note! Full timer channels per pin may be found in the datasheet, starting page 72

The schematic diagram illustrates the ADC module, featuring two channels (D3 and D4) and a third channel (D5) for temperature sensing. The module is powered by a +5V supply and a GND connection.

Channel D3 (SRV05-4 C558418):

- Input Stage:** The input signal V_{IN} is divided by a resistor network (R74, R73) to provide $V_{IN_ADC_MCU}$ to the MCU. The divider ratio is $V_{in} / V_{out} = 0.109$.
- Comparator:** The SRV05-4 C558418 comparator is configured with $V_{in} / V_{out} = 0.4$. It compares the input signal against a reference voltage.
- Op-Amp:** The MCP6004T-I/SL op-amp is configured with a gain of 10. The input signal is amplified and then compared by the comparator.
- Outputs:** The comparator output is connected to the ADC_MCU_1 pin. The op-amp output is connected to the ADC_MCU_2 pin.
- Temperature Sensing:** The module includes a temperature sensor (Coolant temp) connected to the ADC_MCU_4 pin and an Air temp sensor connected to the ADC_MCU_3 pin.

Channel D4 (SRV05-4 C558418):

- Input Stage:** The input signal V_{IN} is divided by a resistor network (R74, R73) to provide $V_{IN_ADC_MCU}$ to the MCU. The divider ratio is $V_{in} / V_{out} = 0.109$.
- Comparator:** The SRV05-4 C558418 comparator is configured with $V_{in} / V_{out} = 0.4$. It compares the input signal against a reference voltage.
- Op-Amp:** The MCP6004T-I/SL op-amp is configured with a gain of 10. The input signal is amplified and then compared by the comparator.
- Outputs:** The comparator output is connected to the ADC_MCU_5 pin. The op-amp output is connected to the ADC_MCU_6 pin.
- Temperature Sensing:** The module includes a temperature sensor (Coolant temp) connected to the ADC_MCU_4 pin and an Air temp sensor connected to the ADC_MCU_3 pin.

Channel D5 (SRV05-4 C558418):

- Input Stage:** The input signal V_{IN} is divided by a resistor network (R74, R73) to provide $V_{IN_ADC_MCU}$ to the MCU. The divider ratio is $V_{in} / V_{out} = 0.109$.
- Comparator:** The SRV05-4 C558418 comparator is configured with $V_{in} / V_{out} = 0.4$. It compares the input signal against a reference voltage.
- Op-Amp:** The MCP6004T-I/SL op-amp is configured with a gain of 10. The input signal is amplified and then compared by the comparator.
- Outputs:** The comparator output is connected to the ADC_MCU_5 pin. The op-amp output is connected to the ADC_MCU_6 pin.
- Temperature Sensing:** The module includes a temperature sensor (Coolant temp) connected to the ADC_MCU_4 pin and an Air temp sensor connected to the ADC_MCU_3 pin.

Footprint rotated!!