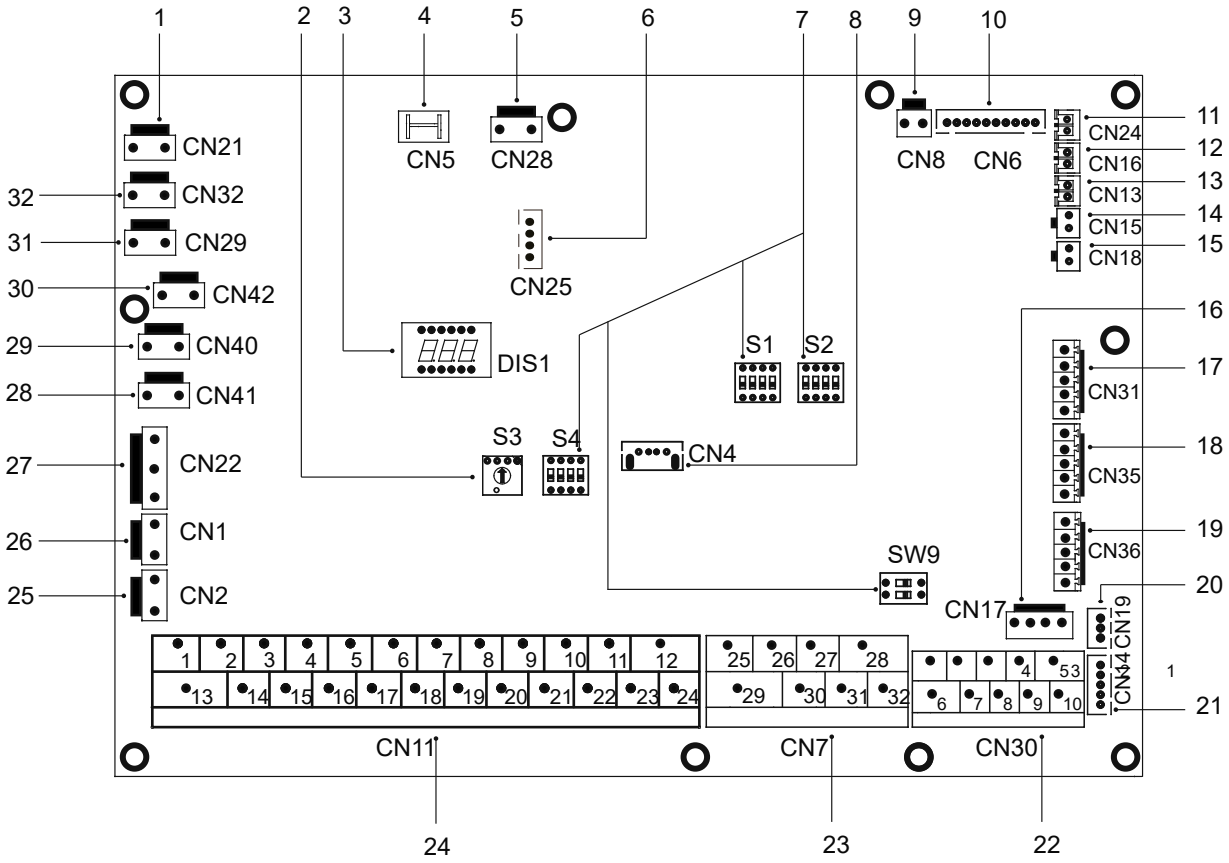
9.3.1 Main control board of hydraulic module



Order	Port	Code	Assembly unit
1	CN21	POWER	Port for power supply
2	S3	/	Rotary dip switch
3	DIS1	/	Digital display
4	CN5	GND	Port for ground
5	CN28	PUMP	Port for variable speed pump power input
6	CN25	DEBUG	Port for IC programming
7	S1,S2,S4,SW9	/	Dip switch
8	CN4	USB	Port for USB programming
9	CN8	FS	Port for flow switch
10	CN6	T2	Port for temperature sensors of refrigerant liquid side temperature of indoor unit (heating mode)
		T2B	Port for temperature sensors of refrigerant gas side temperature of indoor unit (cooling mode)
		TW_in	Port for temperature sensors of inlet water temperature of plate heat exchanger
		TW_out	Port for temperature sensors of outlet water temperature of plate heat exchanger
		T1	Port for temperature sensors of final outlet water temperature of indoor unit
11	CN24	Tbt1	Port for upper temperature sensor of balance tank
12	CN16	Tbt2	Reserved
13	CN13	T5	Port for domestic hot water tank temp. sensor
14	CN15	Tw2	Port for outlet water for zone 2 temp. sensor
15	CN18	Tsolar	Port for solar panel temp sensor
16	CN17	PUMP_BP	Port for variable speed pump communication
17	CN31	HT	Control port for room thermostat (heating mode)
		COM	Power port for room thermostat
		CL	Control port for room thermostat (cooling mode)
18	CN35	SG	Port for smart grid (grid signal)
		EVU	Port for smart grid (photovoltaic signal)

Order	Port	Code	Assembly unit
19	CN36	M1 M2	Port for remote switch
		T1 T2	Port for thermostat transfer board
20	CN19	P Q	Communicate port between indoor unit and outdoor unit
21	CN14	A B X Y E	Port for communication with the wired controller
22	CN30	1 2 3 4 5	Port for communication with the wired controller
		6 7	Communicate port between indoor unit and outdoor unit
		9 10	Port for Internal machine Cascade
23	CN7	26 30/31 32	Compressor run/Defrost run
		25 29	Port for antifreeze E-heating tape(external)
		27 28	Port for additional heat source
24	CN11	1 2	Input port for solar energy
		3 4 15	Port for room thermostat
		5 6 16	Port for SV1(3-way valve)
		7 8 17	Port for SV2(3-way valve)
		9 21	Port for zone 2 pump
		10 22	Port for outside circulation pump
		11 23	Port for solar energy pump
		12 24	Port for DHW pipe pump
		13 16	Control port for tank booster heater
		14 17	Control port for internal backup heater 1
		18 19 20	Port for SV3(3-way valve)
25	CN2	TBH_FB	Feedback port for external temperature switch(shorted in default)
26	CN1	IBH1/2_FB	Feedback port for temperature switch (shorted in default)
27	CN22	IBH1	Control port for internal backup heater 1
		IBH2	Reserved
		TBH	Control port for tank booster heater
28	CN41	HEAT8	Port for anti-freeze electric heating tape(internal)
29	CN40	HEAT7	Port for anti-freeze electric heating tape(internal)
30	CN42	HEAT6	Port for anti-freeze electric heating tape(internal)
31	CN29	HEAT5	Port for anti-freeze electric heating tape(internal)
32	CN32	IBH0	Port for backup heater