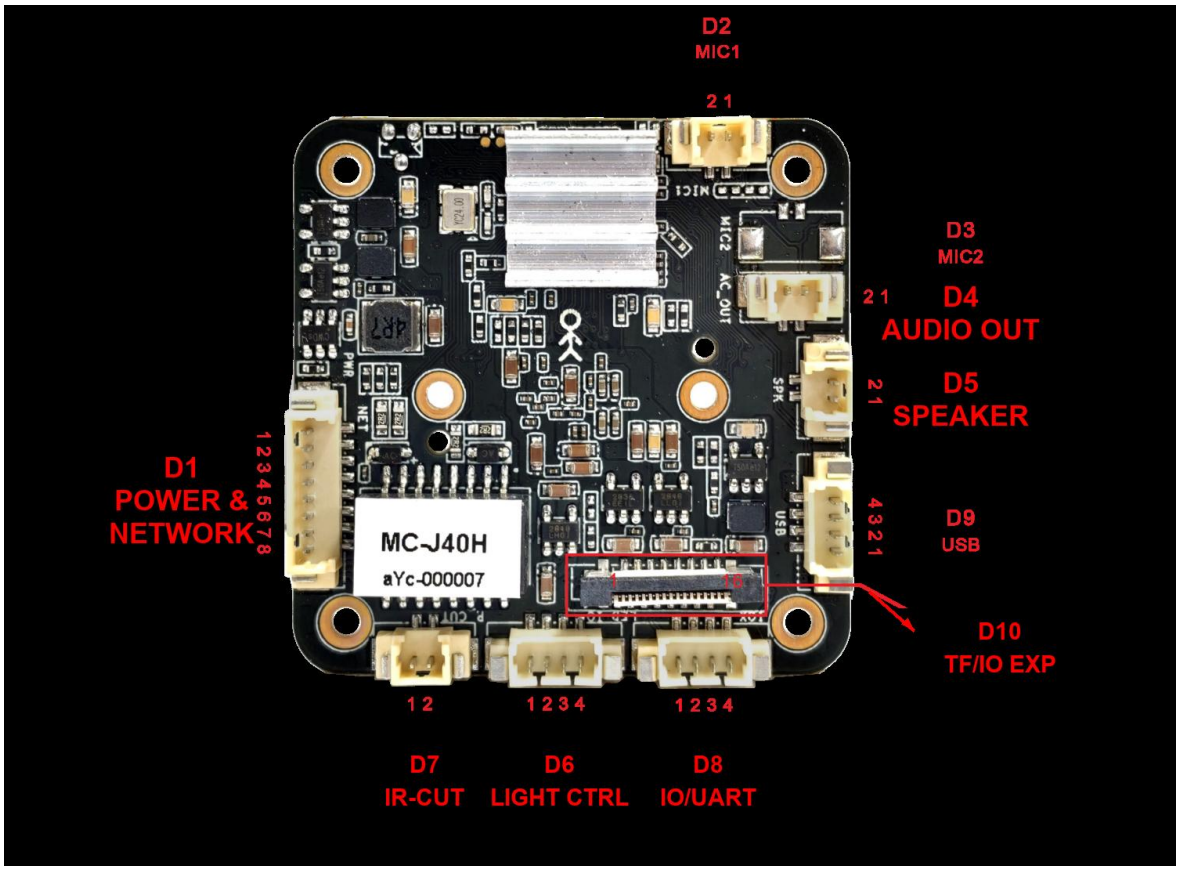
MC-J40H Wiring Diagram

Interface & Pin Definitions



Board connector layout (top view)

Interface Pin Definitions

Code	Interface Function	Pin No.	Pin Definition	Pin Function
D1	**8-pin Network & Power connector**	1	DC 12V+	DC 12V power input
		2	GND	Ground
		3	RJ45_6	Ethernet receive differential pair RJ6
		4	RJ45_3	Ethernet receive differential pair RJ3
		5	RJ45_2	Ethernet transmit differential pair RJ2
		6	RJ45_1	Ethernet transmit

				differential pair RJ1
		7	Reset	System reset
		8	LED+	Network status indicator LED (anode)
D2	**2-pin Main MIC**	1	MIC-	Microphone (negative)
		2	MIC+	Microphone (positive)
D3	**2-pin Auxiliary MIC**	1	MIC-	Reserved
		2	MIC+	Reserved
D4	**Audio Output**	1	AUDIO_OUT	Audio output
		2	GND	Ground
D5	**Speaker Output**	1	SPK-	Speaker output (8 Ω, 2 W)
		2	SPK+	Speaker output
D6	**Illuminator (LED board) Control**	1	CDSIN	Hardware light sensor input (photoresistor)
		2	GND	Ground
		3	PWM1	Reserved
		4	PWM0	Warm light / white light
D7	**IR-CUT Interface**	1	IR-CUT control signal	Reserved
		2	IR-CUT control signal	
D8	**IO + Serial Port**	1	GND	Ground
		2	TX	Serial port transmit
		3	RX	Serial port receive
		4	IO-OUT	SPKEN (speaker enable)
D9	**WiFi / 4G Expansion**	1	GND	Ground
		2	DP	USB DP
		3	DM	USB DM
		4	12V	12V output
D10	**TF Storage / IO Expansion**	1	IOOUT_FPC	
		2	IOINPUT_FPC	
		3	SD_CD	
		4	SD_D1	
		5	SD_D0	
		6	GND	
		7	SD_CLK	
		8	GND	
		9	SD_CMD	
		10	SD_D3	
		11	SD_D2	
		12	SD_VDD	
		13	KEY_RST	

		14	V3.3	
		15	V3.3	
		16	V3.3	