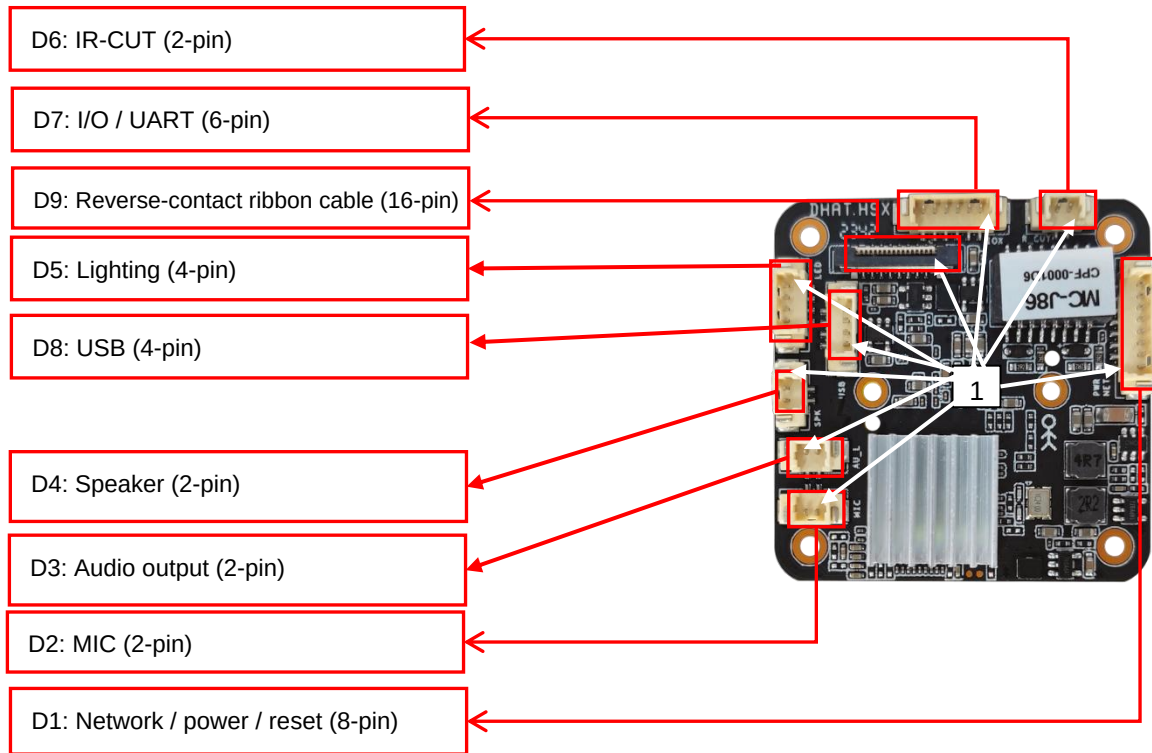


MC-J86 Wiring Diagram



Note: White arrows indicate pin 1.

Connector pin definitions

Code	Interface function	No.	Pin definition	Pin function
D1	8-pin network & power interface	1	DC 12V+	12 V DC input
		2	GND	Ground
		3	RJ45_6	Ethernet RX differential signal, RJ6
		4	RJ45_3	Ethernet RX differential signal, RJ3
		5	RJ45_2	Ethernet TX differential signal, RJ2
		6	RJ45_1	Ethernet TX differential signal, RJ1
		7	Reset	Reset
		8	LED+	Network status LED positive
D2	2-pin MIC	1	MIC-	Microphone
		2	MIC+	
D3	Audio output	1	GND	Ground
		2	AUDIO_OUT	Audio output
D4	Speaker output	1	SPK-	Speaker output, 8 ohm / 2 W
		2	SPK+	

D5	Lighting control	1	CDSIN	Hardware light-sensor input
		2	GND	Ground
		3	PWM1	Reserved
		4	PWN0	Warm / white light
D6	IR-CUT interface	1	IR-CUT control	Output
		2	IR-CUT control	Output
D7	UART	1	REST	Reset
		2	TX1	Main UART
		3	RX1	
		4	TX2	UART (reserved)
		5	RX2	
		6	IO-OUT	SPKEN
D8	Wi-Fi / 4G expansion	1	GND	Ground
		2	DP	DP
		3	DM	DM
		4	12V	12 V output
D9	16-pin TF card expansion	1	IO_OUT	16-pin reverse-contact ribbon cable
		2	IO_INPUT	
		3	SD_CD	
		4	SD_D1	
		5	SD_D0	
		6	GDN	
		7	SD_CLK	
		8	GND	
		9	SD_CMD	
		10	SD_D3	
		11	SD_D2	
		12	VDD	
		13	KEY_RST	
		14	V3.3	
		15	V3.3	
		16	V3.3	