



Q: What is the RM-HUB series?

A: The **RM-HUB** series is a line of configurable Ethernet device extenders enabling multiple remote PoE devices from a single CAT cable run. The line consists of a 4-port transmitter (**RM-T4™**), 8-port transmitter (**RM-T8™**), and a common receiver (**RM-R1™**).

Q: What devices are compatible?

A: The **RM-T4** supports up to four 10/100 Ethernet devices requiring up to 14W PoE each (IEEE 802.3af Class 3). The **RM-T8** supports up to eight 10/100 Ethernet devices requiring up to 7W PoE each (IEEE 802.3af Class 2).

Q: Do all devices have to share the same network?

A: No. By using the optional Split Modes (similar to VLANs), devices can be grouped into one of two distinct Groups that maintain network separation back to the **RM-R1** receiver. These can be controlled by DIP switches, 3rd Party RS-232 commands, or Config File settings.

Q: Can the system be controlled from a 3rd party RS-232 control system?

A: Yes, there is a 3rd party RS-232 port on the **RM-R1** that can receive commands for remotely power cycling individual ports and assigning ports to Split Groups. Please refer to the SCT Programming Guide which can be downloaded from the Tech Tips Support page at www.soundcontrol.net.

Q: What do the LEDs indicate?

A: The LEDs provide a good way to tell if the system is wired correctly and operating normally. Refer to the chart below for details.

Module	LED Label	Status	Indicates
RM-R1	Power	Solid Green	Good Power
	Split Mode	Solid Green	Split Mode is enabled and controlled by DIP switches
		Solid Red	Split Mode is enabled and controlled by configuration file
		Solid Amber	Split Mode is enabled and controlled by SCT control commands
		Off	Split Mode is disabled
	FW*	Blinking Green	Good MCU Firmware
		Blinking Red (slow)	DIP switch 8 is on but no valid configuration file is loaded
	Link PWR	Solid Green	Power is present on the Link cable and being sent to the RC-T4 or RM-T8
	Link	Solid Green	Linked to an RM-T4 or RM-T8

RM-T4 or RM-T8	Power	Solid Green	Good Power
	FW	Blinking Green	Good MCU Firmware
	Link	Solid Green	Linked to RM-R1
	Split Mode	Solid Green	Split Mode is enabled and controlled by DIP switches
		Solid Red	Split Mode is enabled and controlled by configuration file
		Solid Amber	Split Mode is enabled and controlled by SCT control commands
		Off	Split Mode is disabled

*FW blink pattern changes when performing firmware update or writing the log file. Refer to the “RM-HUB Firmware/Log Guide” under the Support page at www.soundcontrol.net for details.

Module	Section	LED Label	INDICATES
RM-T4 or RM-T8	Port Status Indicator Mode	Power, Grp A, Grp B	The Select button toggles through each Mode indicated by the three LEDs. In each mode the Port Status Indicators provide different information. Power Mode: Port Status Indicators illuminate if there is active PoE power on that port. Grp A/Grp B Modes: Port Status Indicators illuminate to show which ports are assigned to which Group

Q: What does the Link Power button do?

A: If this button is held for more than 5 seconds, power is disconnected from the Link and therefore the RM-T4 or RM-T8 will power down. When the button is released, Link power is restored.

Q: What do the DIP switches do?

A: The following chart shows the functions of the 8 position DIP switches:

RM-R1 DIP Switch

Switch	Function	OFF	ON
1	Codec Communications on Diag RS-232 Port	Disabled	Enabled
2	Codec Type	Cisco	n/a
3	Split Mode (VLAN)	Disabled	Enabled
4	Split Mode Control	Controlled by DIP 3	3 rd Party RS-232 Commands
5	Reserved	-	-

6	Reserved	-	-
7	Reserved	-	-
8	Use microSD Configuration File	Disabled*	Enabled

*Default settings are used when Configuration File is disabled (See details below).

RM-T4 DIP Switch

Switch	Function	OFF	ON
1	Reserved	-	-
2	Split (VLAN) Port 2 Assign	RM-R1 Group A	RM-R1 Group B
3	Split (VLAN) Port 3 Assign	RM-R1 Group A	RM-R1 Group B
4	Reserved	-	-
5	Reserved	-	-
6	Reserved	-	-
7	Reserved	-	-
8	Reserved	-	-

RM-T8 DIP Switch

Switch	Function	OFF	ON
1	Reserved	-	-
2	Split (VLAN) Port 2 Assign	RM-R1 Group A	RM-R1 Group B
3	Split (VLAN) Port 3 Assign	RM-R1 Group A	RM-R1 Group B
4	Split (VLAN) Port 4 Assign	RM-R1 Group A	RM-R1 Group B
5	Split (VLAN) Port 5 Assign	RM-R1 Group A	RM-R1 Group B
6	Split (VLAN) Port 6 Assign	RM-R1 Group A	RM-R1 Group B
7	Split (VLAN) Port 6 Assign	RM-R1 Group A	RM-R1 Group B
8	Reserved	-	-

Q: What is a Configuration File and how do I use it?

A: A Configuration File (or Config File) is a text file that can be loaded to the device for further customization of parameters. Refer to the “RM-R1 Config File Formatting Guide” in the Support section of www.soundcontrol.net for details.

Q: What are the default settings when the Configuration File is disabled?

A: The following settings are used when the **RM-R1** DIP switch 8 is off:

These settings are only applicable when Cisco Codec Communications are Enabled:

Parameter	Default Value
Heartbeat timeout interval	30 seconds
SCT device name reported to Cisco codec	SCT RM-HUB

Q: Are there any special settings when integrating with a Cisco codec?

A: After logging into the Cisco web interface, navigate to Settings, SerialPort and verify the following parameters:

BaudRate = 115200
LoginRequired = Off
Mode = On
Outbound Mode = Off

Be sure to click Save if you make any changes on these pages.

Q: I'm installing in a secure environment. Are there any options to be in compliance?

A: Some secure environments don't allow memory card slots on devices. In the Tech Support Downloads section of www.soundcontrol.net there is a special version of Secure firmware that will completely and **permanently** disable the microSD slot. Note: This is not reversible.