

SPLIT RDM

Introduction

The SPLIT RDM is Chromateq's mini DMX-RDM distributor. Its tiny size, small integration space requirement, power protections, RDM capacity and signal duplication make it the essential tool for all your lighting installations and DMX wiring.

It takes one DMX signal and raises the data signal into 2 identical output points. DMX signals are boosted to transmit data to a longer distance, and up to 16 units can be chained.

High voltage protections secure the installation and protect your lighting and all control equipment. No software or hardware configuration is needed.



SPLIT RDM

KEY FEATURES

Compatible RDM-DMX	Can transmit data in both directions with all RDM-DMX compatible equipments and lightings
Unloads the DMX lines	Amplify and boost the DMX signal and no data losses. 1 DMX input + 2 DMX outputs
Easy and quick integration	Compact case size, screw terminal block for all types of wire, no software or hardware configuration needed
Standard power supply	9 to 24 V DC input for all standard power sources compatibility, 9 V Power Supply Unit included
High voltage protection	- Fuses, diodes, phototransistor - Capacitive insulation barrier - Isolated DC-DC converter
Chained devices	Up to 16 units
International warranty	1 year international warranty. EURO or US Power Supply Unit included

SAFETY INSTRUCTIONS

Intended use	This device is intended solely for splitting and boosting DMX-RDM signals between compatible lighting control equipment. Any other use may result in personal injury or property damage. Chromateq accepts no liability for damage resulting from improper use.
Do not use in	Indoor use only, keep dry Direct sunlight Extreme temperature or humidity conditions Dusty or wet environments Areas near strong magnetic fields Any situation where the unit is or may become damaged
General handling	Never use force when installing connectors. Do not immerse in water. Clean only with a dry cloth, do not use solvents, benzene, thinners or flammable cleaning agents.
Electrical safety	Verify supply voltage before connection (9-24 V DC). Use the supplied Power Supply Unit or an equivalent standard source. Ensure proper strain relief on all wiring. Do not exceed maximum current ratings listed in specifications.
Children	Keep packaging materials out of reach of children, choking hazard. Small components may detach; ensure children cannot access them.
Disclaimer	Read all documentation before use. Retain this guide for future reference. If transferring the product to a third party, include this document.

Technical information

Interface, Output, Input

DMX In	1 x 512 channels, RDM
DMX output	2 x 512 channels (insulated + boost)
DMX-RDM ports	DMX 512: 1 In + 2 Out
Connector	Screw terminal block, 5 pins
Chained devices	Up to 16 units
Configuration	None, no software or hardware setup

Specifications

Power input	9-24 V DC
Power consumption	0.3 W
Power supply unit	9 V DC, 0.04 A, 100-240 V~ 50/60 Hz
	EURO or US plug (included)
Dimensions	103 x 50 x 37.5 mm (4.06 x 1.96 x 1.47 in)
Net / Gross weight	0.10 kg / 0.16 kg
Housing	Aluminium IP40
Operating temperature	-45 °C to +85 °C
Operating environment	Indoor, keep dry

Protocols & Communication

DMX 512 / RDM	USITT E1.11-2008. All DMX512 / RDM device
RDM	Bi-directional, all RDM-DMX equipment

Warranty & Certifications

International warranty	1 year
Certifications	CE, Fcc, RoHS, UKCA
HS customs code	8537.10.91

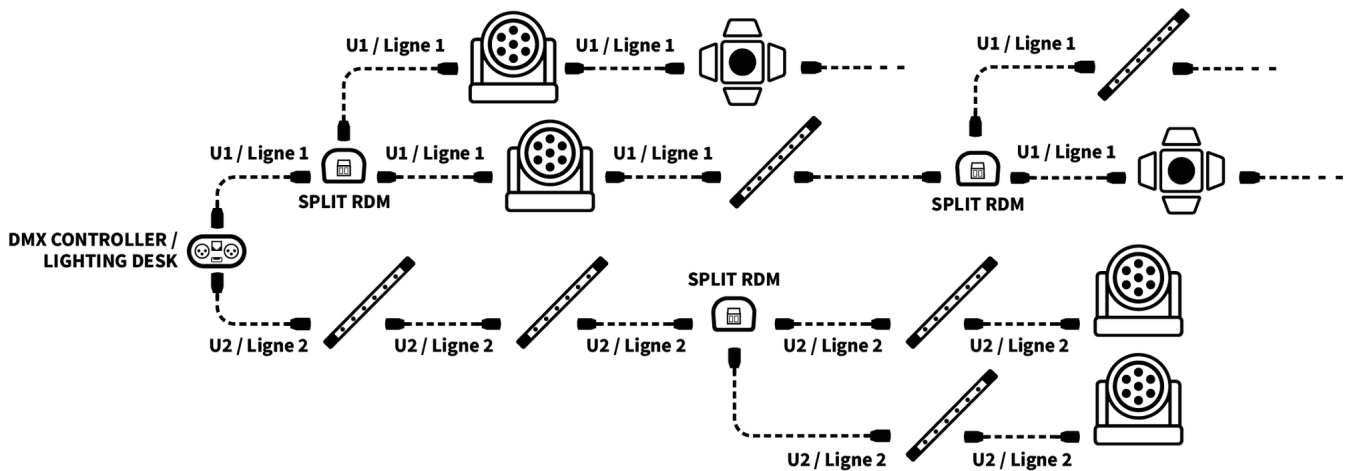
Protection & Insulation

DMX protection	3 kV
DC power protection	1.5 kV / 0.3 A
High voltage	Fuses, diodes, phototransistor, capacitive insulation barrier, isolated DC-DC converter

Tools and Accessories

DIN mounting	Not supported, via DIN rail mounting unit
Power supply	1 x 9 V Power Supply Unit (EURO or US plug)
Infrared remote	Not Included
DMX cable	Not Included

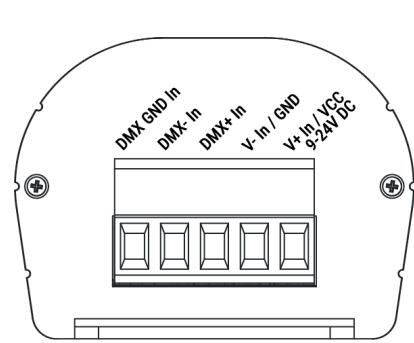
Typical Wiring



Typical DMX-RDM wiring with SPLIT RDM

Connections

FRONT PANEL (DMX IN & POWER)



Terminal Block, 5 pins	1. DMX GND In 2. DMX- In 3. DMX+ In 4. V- In / GND 5. V+ In / VCC 9-24 V DC
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REAR PANEL (DMX OUT)



Status LED	Single LED, see USB Signal LED States below
Terminal Block, 5 pins	1. DMX2+ Out 2. DMX2- Out 3. DMX GND Out 4. DMX1+ Out 5. DMX1- Out

STATUS LED STATES

LED OFF	Interface not powered
LED ON + 3x slow flash	Interface powered on
LED ON	DMX data transmit
3x flash	RDM data transmit

TECHNICAL SUPPORT & RESOURCES

Download Software: chromateq.com/dmx-software-downloads/

Technical Support and commercial: chromateq.com/contact/

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