Gemini RDM Reference Guide

Rev 1.0 - November, 2019

For use with:

- Gemini 2x1 Soft Firmware Rev C1 and later

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Introduction

This document references the RDM capabilities of Gemini 2x1, as of firmware version C1.

RDM Command Reference

NOTE: Set Gemini fixture IN/OUT to “Wired DMX/RDM IN”

COMMAND	PID	DESCRIPTION
Manufacturer ID	0x01AA	Manufacturer ID# (Vitec Group)

Device ID		
Model ID	0x0101	Gemini 1x1 Soft
	0x0102	Gemini 2x1 Soft

Personality		**DMX Personality**
	0x01	P.1- CCT Mode (8 bit) (FootPrint=6)
	0x02	P.2- HSI Mode (8 bit) (FootPrint= 6)
	0x03	P.3- GEL Mode (8 bit) (FootPrint=6)
	0x04	P.4- GEL Mode Extended (8 bit) (FootPrint=7)
	0x05	P.5- RGBW Mode (8 bit) (FootPrint=8)
	0x06	P.6- EFFECTS Mode (8 bit) (FootPrint=9)
	0x07	P.7- PRESETS TRIGGER Mode (8 bit) (FootPrint= 5)
	0x08	P.8- CCT & HSI Mode (8 bit) (FootPrint=12)
	0x09	P.9- CCT & RGBW Mode (8 bit) (FootPrint=10)
	0x0A	P.10- CCT Mode (16 bit) (FootPrint=8)
	0x0B	P.11- HSI Mode (16 bit) (FootPrint=6)
	0x0C	P.12- GEL Mode(16 bit) (FootPrint=8)
	0x0D	P.13- GEL Mode Extended (16 bit) (FootPrint=8)
	0x0E	P.14- RGBW Mode (16 bit) (FootPrint=14)
	0x0F	P.15- EFFECTS Mode (16 bit) (FootPrint=16)
	0x10	P.16- PRESETS TRIGGER Mode (16 bit) (FootPrint=7)
	0x11	P.17- CCT & HSI Mode (16 bit) (FootPrint=20)
	0x12	P.18- CCT & RGBW Mode (16 bit) (FootPrint=16)

Network Management		
DISC_UNIQUE_BRANCH	0x0001	Discover RDM Devices
DISC_MUTE	0x0002	(G S) Mute device (no Discovery response)
DISC_UNMUTE	0x0003	(G S) Enable device for Discovery response

COMMAND	PID	DESCRIPTION
Status Collection		
QUEUED MESSAGES	0x0020	(G) Gets queued messages
STATUS MESSAGES	0x0030	(G) Gets current Warning/Error messages
STATUS ID DESCRIPTION	0x0031	(G) Gets description of each Warning/Error/Status message

RDM Information		
SUPPORTED PARAMETERS	0x0050	(G) Gets a list of all supported RDM commands
PARAMETER DESCRIPTION	0x0051	(G) Gets a list of non-standard RDM commands

Product Information		
DEVICE INFO	0x0060	(G) Gets info regarding the device
DEVICE MODEL DESCRIPTION	0x0080	(G) Gets description of controlled device
MANUFACTURER LABEL	0x0081	(G) Gets label of controlled device
DEVICE LABEL	0x0082	(G, S) Gets or Sets descriptive label for device
SOFTWARE VERSION LABEL	0x00C0	(G) Gets software version

DMX512 Setup		
DMX Personality	0x00E0	(G, S) Gets or Sets DMX Mode
DMX Personality Description	0x00E1	(G) Gets description of the DMX Personality
DMX Start Address	0x00F0	(G, S) Gets or Sets DMX Base Address
DMX Slot Info	0x0120	(G) Gets the description from each slot

Sensors	**0x02xx**	
SENSOR DEFINITION	0x0200	(G) Gets the definition of a specific sensor
SENSOR VALUE	0x0201	(G) Gets the sensor data

Power / Lamp Settings	**0x04xx**	
DEVICE HOURS	0x0400	(G) Gets the total number of "ON" hours of device
LAMP HOURS	0x0401	(G) Gets the total number of "LAMP ON" hours of device
DEVICE POWER CYCLES	0x0405	(G) Gets the number of power cycles of device

Display Settings	**0x05xx**	
DISPLAY INVERT	0x0500	(G, S) Gets or Sets the display invert setting
DISPLAY LEVEL	0x0501	(G, S) Gets or Sets the display Dim Level

COMMAND	PID	DESCRIPTION
Manufacturer Commands	**0x8xxx**	
FAN MODE	0x8000	(G, S) Gets or Sets the Fan Mode of device
		FAN AUTO= 0x00
		FAN OFF= 0x01
		FAN DELAYED= 0x02
		FAN ON (MAX)= 0x03
		FAN DMX MODE= 0x04

DMX MODE CNTRL ENABLE	0x8001	(G, S) Gets and Sets the DMX Mode Cntrl Setting
		DMX Mode Cntrl Enabled= 0
		DMX Mode Cntrl Disabled= 1

HSI SATURATION CURVE	0x8002	(G, S) Gets and Sets the HSI Saturation Curve setting
		Linear Curve= 0
		Log Curve= 1

DMX VERSION	0x8003	(G, S) Gets and Sets the DMX Version setting
		Version 1= 0x00 (Original Gemini)
		Version 2= 0x01 (Extended Gemini with more Gels)
		Version CCT & HSI= 0x02
		Version CCT & RGBW= 0x03

DMX CCT RANGE	0x8004	(G,S) Gets and Sets the CCT Mode Range using Dmx
		6000K Range= 0x00
		10000K Range= 0x01

Sensors		
Sensor 1		Input Voltage (V)
Sensor 2		Power Output (W)
Sensor 3		LED Panel Temperature
Sensor 4		PCB Daylight Temperature
Sensor 5		PCB Tungsten Temperature