



UnipartX10 RDM

Interface commands manual

For 14 series

7/May/2020

2. RDM commands

2.1 DMX Personality (PID = 0 x 00 E0)

Defines the number of DMX slots and their functionality.

GET command returns [1 - 4]

SET command should be between [1 - 4]

| ID | 1 | 2 | 3 (default) | 4 |
|--------------------|---|--|--|--|
| Description | 5 slots: Master fader + RGBW channels (8-bit values). A slot between 2 and 5 controls a corresponding channel intensity by setting a value between 0 and 255. The first slot functions as a master fader. | 10 slots: Master fader + RGBW channels (16-bit values). Same functionality as the previous setting but by using 16-bit values. Each channel is controlled by two slots and can get values between 0 and 65535. | 4 slots: RGBW channels (8-bit values): Each slot controls a color channel intensity by setting a value between 0 and 255. No master fader. | 8 slots: RGBW channels (16-bit values). Same functionality as the previous setting but by using 16-bit values. Each channel is controlled by two slots and can get values between 0 and 65535. |
| Example | 128 255 34 42 80 | 1. Set value 12345 (48 x 256 + 57) » slot 1 = 48, slot 2 = 57 2. 128 1 255 255 34 0 42 50 80 11 » 32769 65535 8704 10802 20491 | 255 34 42 80 | 255 255 34 0 42 50 80 11 » 32769 65535 8704 10802 20491 |

2.2 Power-on value (PID = 0 x 8002)

Defines the behavior of the device when switched on without an RDM/DMX controller being connected.

GET command returns [0 - 3]

SET command should be between [0 - 3]

| ID | 0 (default) | 1 | 2 | 3 |
|--------------------|-----------------------------------|------------------------|----------------------|-----------------------------------|
| Description | Color setting 1 (see section 2.5) | All channels set to 0% | Maximum power (100%) | All channels set to 10% intensity |

2.3 On DMX signal loss (PID = 0 x 8001)

Defines the behavior of the device when RDM/DMX controller gets disconnected. The selected setting is applied 2 seconds after signal loss is detected.

GET command returns [0 - 4]

SET command should be between [0 - 4]

| ID | 0 (default) | 1 | 2 | 3 | 4 |
|--------------------|------------------------------|----------------------|-----------------------------------|----------------------------------|-----------------------------------|
| Description | Keep last applied DMX values | Maximum power (100%) | All channels set to 10% intensity | All channels set to 0% intensity | Color setting 1 (see section 2.5) |

2.4 Smoothing factor (PID = 0 x 8000)

Defines how smooth the transition to next applied intensity level will be (not to be confused with fade rate or fade time). Transition time is always the same regardless of the distance between the current level and the one to be applied. For settings 1 to 3, the system automatically calculates a number of intermediate steps that make the transition look smoother.

GET command returns [0 - 3]

SET command should be between [0 - 3]

| ID | 0 (default) | 1 | 2 | 3 |
|--------------------|--|--|--|--|
| Description | Transition to next applied level happens immediately | Transition completes in approximately 100 ms | Transition completes in approximately 300 ms | Transition completes in approximately 500 ms |

2.5 Color setting 1 / User defined default color (PID = 0 x 8006)

Defines the values that makes up the default color combination (combination of RGBW plus a master fader value in 16-bit values).

GET command returns 6 bytes

SET command must send 6 bytes

| Bytes | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 |
|-----------------------|--|---------------------------------------|---|--|---|
| Description | Master fade value Example 12345: Byte 1 = 48, Byte 2 = 57 | Red channel intensity in 16-bit value | Green channel intensity in 16-bit value | Blue channel intensity in 16-bit value | White channel intensity in 16-bit value |
| Default values | 255, 255 (65535) | 255, 0 (65280) | 160, 0 (40960) | 5, 0 (1280) | 255, 255 (65535) |

2.6 Color setting 2 / White point level (PID = 0 x 8007)

Defines the values that makes up the default white point (combination of RGB which gives out a white color when applied).

GET command returns 6 bytes

SET command must send 6 bytes

| Bytes | 1-2 | 3-4 | 5-6 |
|-----------------------|---|---|--|
| Description | Red channel intensity in 16-bit value | Green channel intensity in 16-bit value | Blue channel intensity in 16-bit value |
| | Example 12345: Byte 1 = 48, Byte 2 = 57 | | |
| Default values | 255, 0 (65280) | 230, 0 (58880) | 127, 0 (32512) |

2.7 Color setting 3 / Warm white level (PID = 0 x 8008)

Defines the values that makes up the default warm white color (combination of RGB).

GET command returns 6 bytes

SET command must send 6 bytes

| Bytes | 1-2 | 3-4 | 5-6 |
|-----------------------|---|---|--|
| Description | Red channel intensity in 16-bit value | Green channel intensity in 16-bit value | Blue channel intensity in 16-bit value |
| | Example 12345: Byte 1 = 48, Byte 2 = 57 | | |
| Default values | 255, 0 (65280) | 191, 0 (48896) | 56, 0 (14336) |

2.8 Color setting 4 / Pink-white level (PID = 0 x 8009)

Defines the values that makes up the default pink-white color (combination of RGB).

GET command returns 6 bytes

SET command must send 6 bytes

| Bytes | 1-2 | 3-4 | 5-6 |
|-----------------------|---|---|--|
| Description | Red channel intensity in 16-bit value | Green channel intensity in 16-bit value | Blue channel intensity in 16-bit value |
| | Example 12345: Byte 1 = 48, Byte 2 = 57 | | |
| Default values | 255, 0 (65280) | 119, 0 (30464) | 12, 0 (3072) |

2.9 Color setting 5 / User defined level (PID = 0 x 800A, currently not used anywhere)

Defines the values that makes up a user defined slot combination.

GET command returns 10 bytes

SET command must send 10 bytes

| Bytes | 1-2 | 3-4 | 5-6 | 7-8 | 9-10 |
|-----------------------|---|---------------------------------------|---|--|---|
| Description | Master fade value | Red channel intensity in 16-bit value | Green channel intensity in 16-bit value | Blue channel intensity in 16-bit value | White channel intensity in 16-bit value |
| | Example 12345: Byte 1 = 48, Byte 2 = 57 | | | | |
| Default values | 255, 255 (65535) | 255, 0 (65280) | 3, 0 (768) | 33, 0 (8448) | 3, 0 (768) |

2.10 On DMX maximum (PID = 0 x 800B)

Defines the behavior of the device when RGB slots are set to the maximum value (255 for DMX personalities 1,3 and 65535 for personalities 2,4). Only the RGB slots are affected. Master fader (if exists) and white channel remain the same.

GET command returns [0 - 3]

SET command should be between [0 - 3]

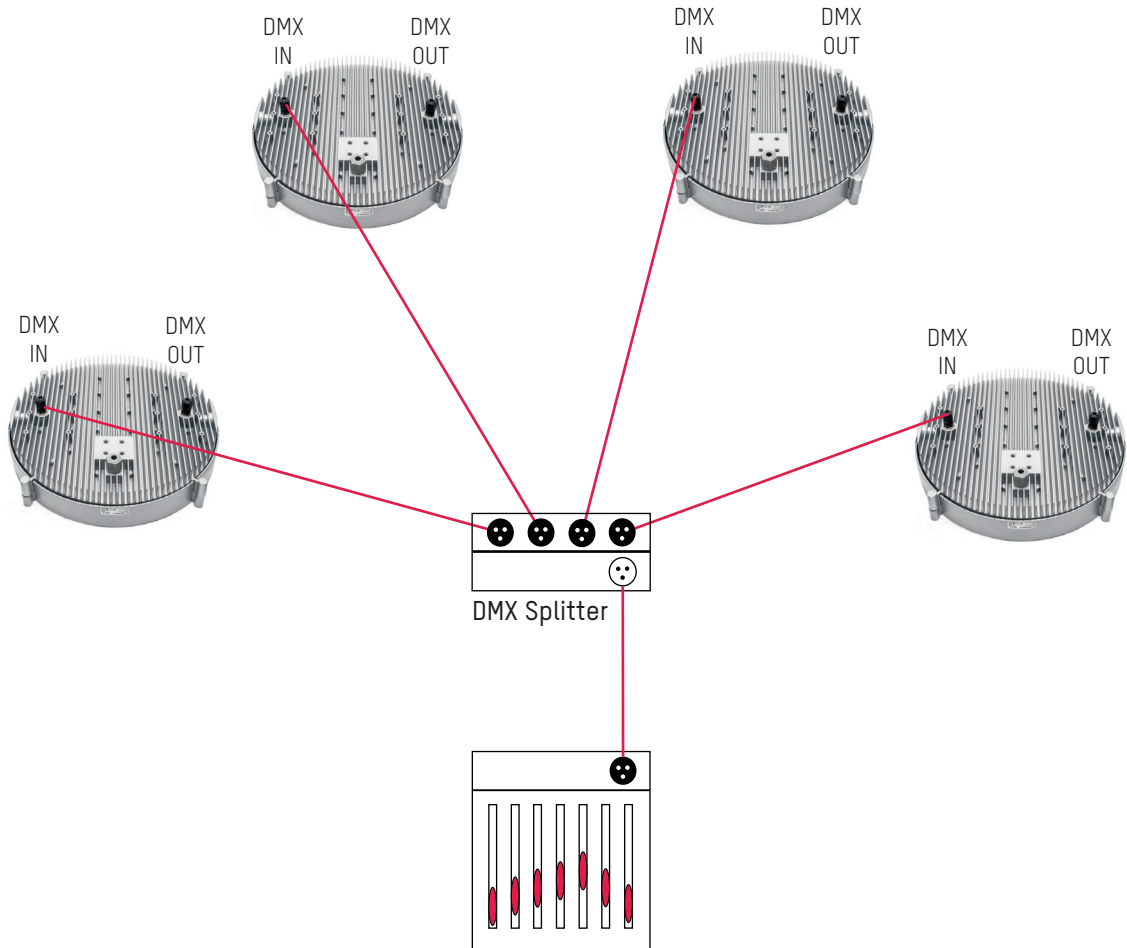
| ID | 0 (default) | 1 | 2 | 3 |
|--------------------|-----------------------|-----------------------|-----------------------|-------------------------------|
| Description | Apply color setting 2 | Apply color setting 3 | Apply color setting 4 | Apply the DMX received values |

2.11 Software reset (PID = 0 x 1001)

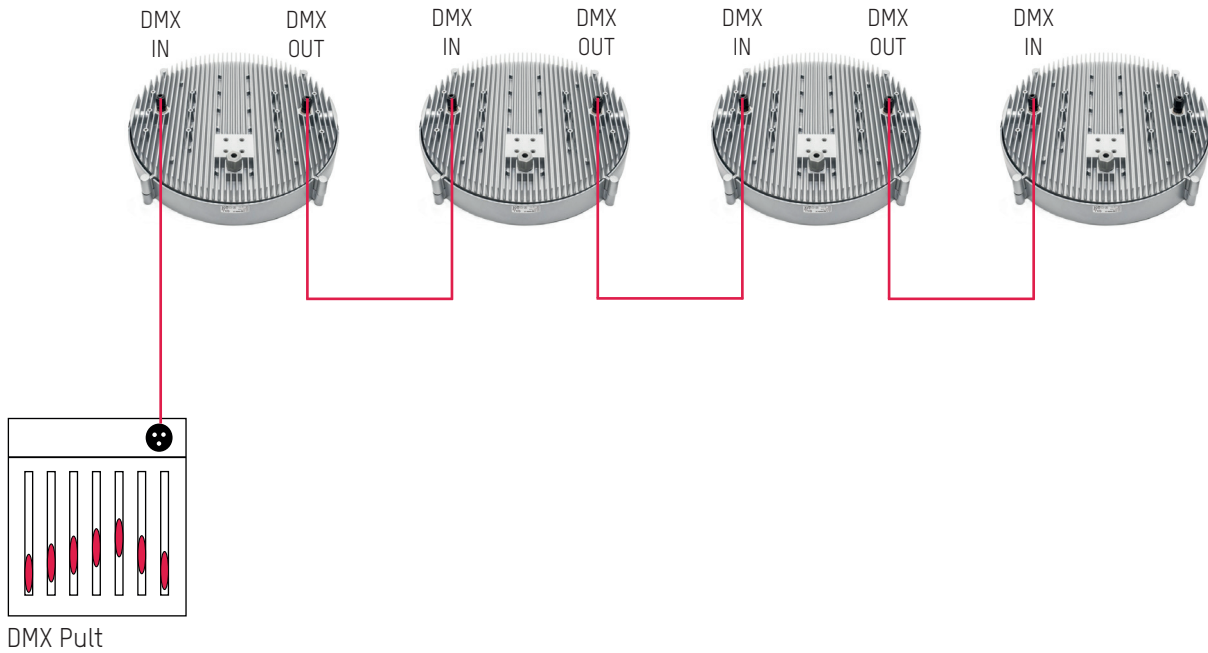
Upon the reception of a RESET command if the byte that is sent is set to 1, then all the values of the services described in the previous section are reverted to the default ones.

SET command: 1 byte with value 0 x 01

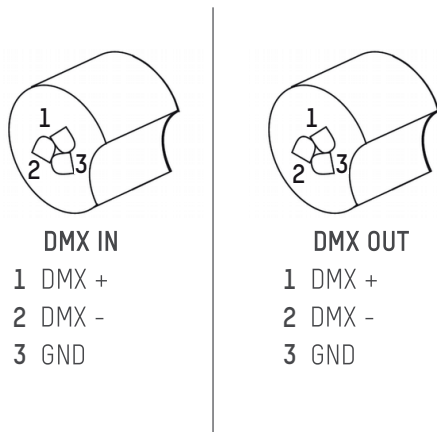
DMX Cabling



DMX Cabling



DMX Connector pin assignment



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- modification of the luminaire
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