

GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-1 PRO WITH EXTERIOR DC-FEEDER (P3 POWERPORT 2000)



Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-1 Pro per DMX universe (RGB Mode)

P3 System Controllers



P3-PC System Controller
Free download

- Up to 20.736 pixels
- Supports input resolutions up to 1920x1080
- Up to 2000 Exterior Feeders



P3-175 System Controller
Video signal processor
P/N 90721100

- Up to 520.000 pixels
- Supports input resolutions up to 1920x1080
- Up to 2000 Exterior Feeders



P3-275 System Controller
Video signal processor
P/N 90721101

- Up to 1.040.000 pixels
- Supports input resolutions up to 3840x2160
- Up to 6000 Exterior Feeders

Media Server (Provided by others)

Art-Net / sACN

P3

Maximum 100m Ethernet Cable between Controller and PowerPort (extendable via Gigabit Switch or conversion to fiber)

Exterior Dot-1 generic layout

Martin P3 PowerPort 2000
P/N MAR-90721200

To next P3 PowerPort 2000

Power + Data Extension Cable, Install Type, DCE to DCE

- | | |
|-------------------------|---|
| P/N MAR-91700100 (1m) | P/N MAR-91700105 (100m raw cable) |
| P/N MAR-91700101 (2,5m) | P/N MAR-91700106 (100m LSZH raw cable) |
| P/N MAR-91700102 (5m) | P/N MAR-91700107 (DCE Male Connector) |
| P/N MAR-91700103 (10m) | P/N MAR-91700108 (DCE Female Connector) |
| P/N MAR-91700104 (25m) | |

Exterior DC-Feeder

with DCE Connector
P/N MAR-90580004

Exterior Dot-1
P/N MAR-90580000

Standard Exterior Dot-1 config.:
LED color: RGBW
Pitch: 115 mm
No. of Dots: 100 pcs.
Lead-in: 2 m

DCE DataSplitterBooster IP

P/N MAR-90721204
(Optional: For distance extension and or splitting the signal into two chains of fixtures)

Hybrid Power+Data Cable DCE-DCE

(Not required if Exterior DC-Feeder are mounted next to each other (<35cm))

Exterior DC-Feeder

with DCE Connector
P/N MAR-90580004

Active Lead-in Cable Extender, 5m
P/N MAR-90580023
(Max 1 per Ext. DC-Feeder)

Double String Cable Adapter

P/N MAR-90580024
(Sum of two Exterior Dot-1 strings, should be limited to Pitch/Dot table)

Max 1 Double String Cable Adapter per Exterior DC-Feeder

Hybrid Power+Data Cable DCE-DCE

(Not needed if Exterior DC-Feeder are mounted next to each other (<35cm))

Cap for Connector DCE Female
P/N MAR-91700110

Install blanking caps on all unused female connectors at end of chains

Numbers based on max. 45m from P3 PowerPort 2000 to last Ext. DC-Feeder (for other configurations see *Limitation Page: Number of Exterior Dot Pro's vs. Cable length*)

Up to 4 daisy-chains per P3 Powerport 2000 (one per output)

Maximum Exterior Dot-1 per P3 PowerPort 2000
Up to 1600 Exterior Dot-1's per P3 PowerPort 2000

Maximum Exterior Dot-1 per output
Up to 400 Exterior Dot-1's per daisy-chain

Examples:

4 strings of 100 Exterior Dot-1's or
5 strings of 80 Exterior Dot-1's or
6 strings of 66 Exterior Dot-1's or ...

Accessories:

Glare Shield Ext. Dot 1, Set of 10
P/N MAR-90580005 (Grey Version)
P/N MAR-90580029 (Black Version)

White Diffuser Dome Ext. Dot-1, Set of 10
P/N MAR-90580011 (Grey version)
P/N MAR-90580014 (Black version)

Mounting Bracket Ext. Dot-1, Set of 10
P/N MAR-90580008 (Grey Version)
P/N MAR-90580032 (Black Version)

Mounting Profile Ext. Dot-1, 2m, Alu
P/N MAR-90580017
P/N MAR-90580026 (Set of End Caps)



Exterior Dot-1
P/N MAR-90580000

Dot Spacing [mm]	2m Lead-in Cable	5m Lead-in Cable	5m Lead-in Cable + 5m Active Lead-in Cable Extender
	Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)
115 std.	100 (L: 13,4m)	100 (L: 16,4m)	100 (L: 21,4m)
200	100 (L: 21,8m)	100 (L: 24,8m)	100 (L: 29,8m)
300	100 (L: 31,7m)	100 (L: 34,7m)	100 (L: 39,7m)
400	100 (L: 41,6m)	100 (L: 44,6m)	100 (L: 49,6m)
500	100 (L: 51,5m)	100 (L: 54,5m)	100 (L: 59,5m)
600	100 (L: 61,4m)	100 (L: 64,4m)	100 (L: 69,4m)
700	100 (L: 71,3m)	100 (L: 74,3m)	98 (L: 77,9m)
800	100 (L: 81,2m)	98 (L: 82,6m)	95 (L: 82,2m)
900	98 (L: 89,3m)	95 (L: 89,6m)	91 (L: 91,0m)
1000	95 (L: 96,0m)	92 (L: 96,0m)	88 (L: 97,0m)
1100	92 (L: 102,1m)	89 (L: 101,8m)	85 (L: 102,4m)
1200	90 (L: 108,8m)	86 (L: 107,0m)	82 (L: 107,2m)
1300	87 (L: 113,8m)	83 (L: 111,6m)	80 (L: 112,7m)
1400	85 (L: 119,6m)	80 (L: 115,6m)	78 (L: 117,8m)
1500	82 (L: 123,5m)	78 (L: 120,5m)	76 (L: 122,5m)
1600	79 (L: 126,8m)	76 (L: 125,0m)	73 (L: 125,2m)
1700	75 (L: 127,8m)	73 (L: 127,4m)	71 (L: 129,0m)
1800	72 (L: 129,8m)	70 (L: 129,2m)	68 (L: 130,6m)
1900	68 (L: 129,3m)	67 (L: 130,4m)	65 (L: 131,6m)
2000	65 (L: 130m)	64 (L: 131,0m)	62 (L: 132,0m)

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	115 mm (4.5 in.)
Minimum pixel spacing (pitch):	115 mm (4.5 in.)
Maximum pixel spacing (pitch):	2000 mm (78.8 in.)
Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)**

One pixel = one Dot
** Can be extended 5m by using Active Lead-in Cable Extender

Please contact your local sales person for customized Exterior Dot-1 strings.

GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-1 PRO WITH EXTERIOR DC-FEEDER (P3 POWERPORT 500 IP)



Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-1 Pro per DMX universe (RGB Mode)

P3 System Controllers



P3-PC System Controller
Free download

- Up to 20.736 pixels
- Supports input resolutions up to 1920x1080
- Up to 2000 Exterior Feeders



P3-175 System Controller
Video signal processor
P/N 90721100

- Up to 520.000 pixels
- Supports input resolutions up to 1920x1080
- Up to 2000 Exterior Feeders



P3-275 System Controller
Video signal processor
P/N 90721101

- Up to 1.040.000 pixels
- Supports input resolutions up to 3840x2160
- Up to 6000 Exterior Feeders

Media Server (Provided by others)

Art-Net / sACN

P3

Maximum 100m Ethernet Cable between Controller and PowerPort (extendable via Gigabit Switch or conversion to fiber)

Exterior Dot-1 generic layout

Martin P3 PowerPort 500 IP
P/N MAR-90721202



N — To next P3 PowerPort 500 IP

Power + Data Extension Cable, Install Type, DCE to DCE

- | | |
|-------------------------|---|
| P/N MAR-91700100 (1m) | P/N MAR-91700105 (100m raw cable) |
| P/N MAR-91700101 (2,5m) | P/N MAR-91700106 (100m LSZH raw cable) |
| P/N MAR-91700102 (5m) | P/N MAR-91700107 (DCE Male Connector) |
| P/N MAR-91700103 (10m) | P/N MAR-91700108 (DCE Female Connector) |
| P/N MAR-91700104 (25m) | |

Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004



Exterior Dot-1
P/N MAR-90580000

Standard Exterior Dot-1 config.:
LED color: RGBW
Pitch: 115 mm
No. of Dots: 100 pcs.
Lead-in: 2 m

DCE DataSplitterBooster IP
P/N MAR-90721204

(Optional: For distance extension and or splitting the signal into two chains of fixtures)

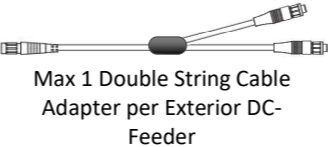
Hybrid Power+Data Cable DCE-DCE

(Not required if Exterior DC-Feeder are mounted next to each other (<35cm))

Exterior DC-Feeder
with DCE Connector
P/N MAR-90580004

Active Lead-in Cable Extender, 5m
P/N MAR-90580023
(Max 1 per Ext. DC-Feeder)

Double String Cable Adapter
P/N MAR-90580024
(Sum of two Exterior Dot-1 strings, should be limited to Pitch/Dot table)



Max 1 Double String Cable Adapter per Exterior DC-Feeder

Hybrid Power+Data Cable DCE-DCE
(Not needed if Exterior DC-Feeder are mounted next to each other (<35cm))

Caps for Connector DCE Female
P/N MAR-91700110

Install blanking caps on all unused female connectors at end of chains

Numbers based on max. 45m from P3 PowerPort to last Ext. DC-Feeder (for other configurations see *Limitation Page: Number of Exterior Dot Pro's vs. Cable length*)

1 daisy-chains per P3 Powerport 500 IP

Maximum Exterior Dot-1 per output
Up to 400 Exterior Dot-1's per daisy-chain

Examples:

4 strings of 100 Exterior Dot-1's or
5 strings of 80 Exterior Dot-1's or
6 strings of 66 Exterior Dot-1's or ...

Accessories:

Glare Shield Ext. Dot 1, Set of 10
P/N MAR-90580005 (Grey Version)
P/N MAR-90580029 (Black Version)

White Diffuser Dome Ext. Dot-1, Set of 10
P/N MAR-90580011 (Grey version)
P/N MAR-90580014 (Black version)

Mounting Bracket Ext. Dot-1, Set of 10
P/N MAR-90580008 (Grey Version)
P/N MAR-90580032 (Black Version)

Mounting Profile Ext. Dot-1, 2m, Alu
P/N MAR-90580017
P/N MAR-90580026 (Set of End Caps)



Exterior Dot-1
P/N MAR-90580000

Dot Spacing [mm]	2m Lead-in Cable	5m Lead-in Cable	5m Lead-in Cable + 5m Active Lead-in Cable Extender
	Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)
115 std.	100 (L: 13,4m)	100 (L: 16,4m)	100 (L: 21,4m)
200	100 (L: 21,8m)	100 (L: 24,8m)	100 (L: 29,8m)
300	100 (L: 31,7m)	100 (L: 34,7m)	100 (L: 39,7m)
400	100 (L: 41,6m)	100 (L: 44,6m)	100 (L: 49,6m)
500	100 (L: 51,5m)	100 (L: 54,5m)	100 (L: 59,5m)
600	100 (L: 61,4m)	100 (L: 64,4m)	100 (L: 69,4m)
700	100 (L: 71,3m)	100 (L: 74,3m)	98 (L: 77,9m)
800	100 (L: 81,2m)	98 (L: 82,6m)	95 (L: 82,2m)
900	98 (L: 89,3m)	95 (L: 89,6m)	91 (L: 91,0m)
1000	95 (L: 96,0m)	92 (L: 96,0m)	88 (L: 97,0m)
1100	92 (L: 102,1m)	89 (L: 101,8m)	85 (L: 102,4m)
1200	90 (L: 108,8m)	86 (L: 107,0m)	82 (L: 107,2m)
1300	87 (L: 113,8m)	83 (L: 111,6m)	80 (L: 112,7m)
1400	85 (L: 119,6m)	80 (L: 115,6m)	78 (L: 117,8m)
1500	82 (L: 123,5m)	78 (L: 120,5m)	76 (L: 122,5m)
1600	79 (L: 126,8m)	76 (L: 125,0m)	73 (L: 125,2m)
1700	75 (L: 127,8m)	73 (L: 127,4m)	71 (L: 129,0m)
1800	72 (L: 129,8m)	70 (L: 129,2m)	68 (L: 130,6m)
1900	68 (L: 129,3m)	67 (L: 130,4m)	65 (L: 131,6m)
2000	65 (L: 130m)	64 (L: 131,0m)	62 (L: 132,0m)

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	115 mm (4.5 in.)
Minimum pixel spacing (pitch):	115 mm (4.5 in.)
Maximum pixel spacing (pitch):	2000 mm (78.8 in.)
Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)**

One pixel = one Dot
** Can be extended 5m by using Active Lead-in Cable Extender

Please contact your local sales person for customized Exterior Dot-1 strings.

GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-1 PRO WITH EXTERIOR DC-FEEDER (MARTIN IP66 PSU)



Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-1 Pro per DMX universe (RGB Mode)

P3 System Controllers



P3-PC System Controller
Free download

- Up to 20.736 pixels
- Supports input resolutions up to 1920x1080
- Up to 2000 Exterior Feeders



P3-175 System Controller
Video signal processor
P/N 90721100

- Up to 520.000 pixels
- Supports input resolutions up to 1920x1080
- Up to 2000 Exterior Feeders



P3-275 System Controller
Video signal processor
P/N 90721101

- Up to 1.040.000 pixels
- Supports input resolutions up to 3840x2160
- Up to 6000 Exterior Feeders

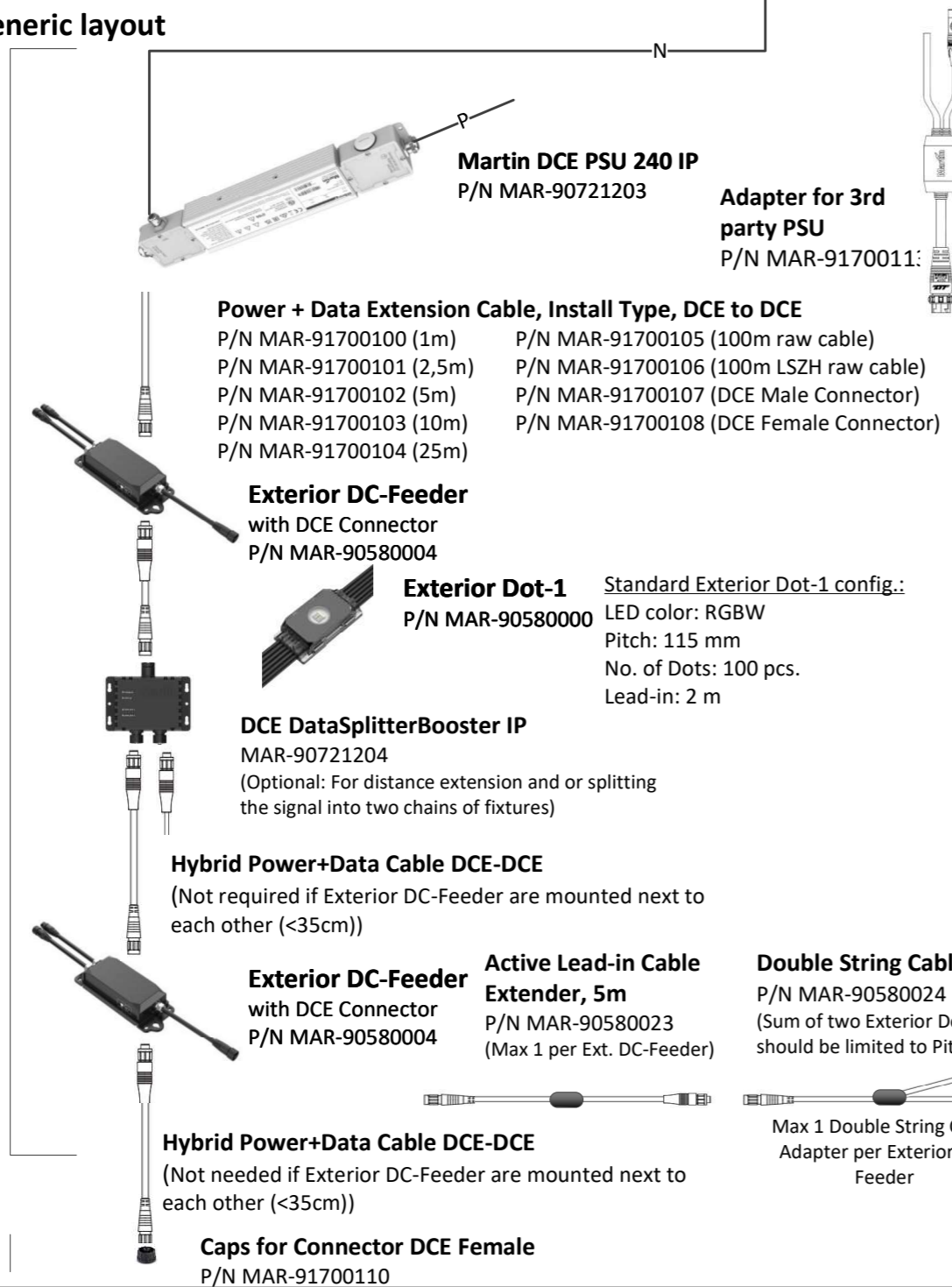
Media Server (Provided by others)

Art-Net / sACN

P3

Maximum 100m Ethernet Cable between Controller and PowerPort (extendable via Gigabit Switch or conversion to fiber)

Exterior Dot-1 generic layout



Max. distance between Martin DCE PSU and last Ext. DC-Feeder in daisy-chain: Please consult **Limitation Page: Number of Exterior Dot Pro's vs. Cable length**
Maximum 16 DC-feeders in a daisy-chain

Install blanking caps on all unused female connectors at end of chains

Numbers based on max. 45m from Martin IP66 PSU to last Ext. DC-Feeder (for other configurations see *Limitation Page: Number of Exterior Dot Pro's vs. Cable length*)

1 daisy-chains per Martin IP66 PSU 240W

Maximum Exterior Dot-1 per output
Up to 200 Exterior Dot-1's per daisy-chain

Examples:

- 2 strings of 100 Exterior Dot-1's or
- 3 strings of 66 Exterior Dot-1's or
- 4 strings of 50 Exterior Dot-1's or ...

Accessories:

Glare Shield Ext. Dot 1, Set of 10
P/N MAR-90580005 (Grey Version)
P/N MAR-90580029 (Black Version)

White Diffuser Dome Ext. Dot-1, Set of 10
P/N MAR-90580011 (Grey version)
P/N MAR-90580014 (Black version)

Mounting Bracket Ext. Dot-1, Set of 10
P/N MAR-90580008 (Grey Version)
P/N MAR-90580032 (Black Version)

Mounting Profile Ext. Dot-1, 2m, Alu
P/N MAR-90580017
P/N MAR-90580026 (Set of End Caps)



Dot Spacing [mm]	2m Lead-in Cable	5m Lead-in Cable	5m Lead-in Cable + 5m Active Lead-in Cable Extender
	Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	Max. Number Of Dots per String/Ext. DC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)
115 std.	100 (L: 13,4m)	100 (L: 16,4m)	100 (L: 21,4m)
200	100 (L: 21,8m)	100 (L: 24,8m)	100 (L: 29,8m)
300	100 (L: 31,7m)	100 (L: 34,7m)	100 (L: 39,7m)
400	100 (L: 41,6m)	100 (L: 44,6m)	100 (L: 49,6m)
500	100 (L: 51,5m)	100 (L: 54,5m)	100 (L: 59,5m)
600	100 (L: 61,4m)	100 (L: 64,4m)	100 (L: 69,4m)
700	100 (L: 71,3m)	100 (L: 74,3m)	98 (L: 77,9m)
800	100 (L: 81,2m)	98 (L: 82,6m)	95 (L: 82,2m)
900	98 (L: 89,3m)	95 (L: 89,6m)	91 (L: 91,0m)
1000	95 (L: 96,0m)	92 (L: 96,0m)	88 (L: 97,0m)
1100	92 (L: 102,1m)	89 (L: 101,8m)	85 (L: 102,4m)
1200	90 (L: 108,8m)	86 (L: 107,0m)	82 (L: 107,2m)
1300	87 (L: 113,8m)	83 (L: 111,6m)	80 (L: 112,7m)
1400	85 (L: 119,6m)	80 (L: 115,6m)	78 (L: 117,8m)
1500	82 (L: 123,5m)	78 (L: 120,5m)	76 (L: 122,5m)
1600	79 (L: 126,8m)	76 (L: 125,0m)	73 (L: 125,2m)
1700	75 (L: 127,8m)	73 (L: 127,4m)	71 (L: 129,0m)
1800	72 (L: 129,8m)	70 (L: 129,2m)	68 (L: 130,6m)
1900	68 (L: 129,3m)	67 (L: 130,4m)	65 (L: 131,6m)
2000	65 (L: 130m)	64 (L: 131,0m)	62 (L: 132,0m)

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	115 mm (4.5 in.)
Minimum pixel spacing (pitch):	115 mm (4.5 in.)
Maximum pixel spacing (pitch):	2000 mm (78.8 in.)
Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)**

One pixel = one Dot
** Can be extended 5m by using Active Lead-in Cable Extender

Please contact your local sales person for customized Exterior Dot-1 strings.

GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-1 PRO WITH EXTERIOR AC-FEEDER

Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-1 Pro per DMX universe (RGB Mode)

P3 System Controllers



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Free download

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- Supports input resolutions up to 1920x1080
- Up to 2000 Exterior Feeders



P3-175 System Controller
Video signal processor
P/N 90721100

- Up to 520.000 pixels
- Supports input resolutions up to 1920x1080
- Up to 2000 Exterior Feeders



P3-275 System Controller
Video signal processor
P/N 90721101

- Up to 1.040.000 pixels
- Supports input resolutions up to 3840x2160
- Up to 6000 Exterior Feeders

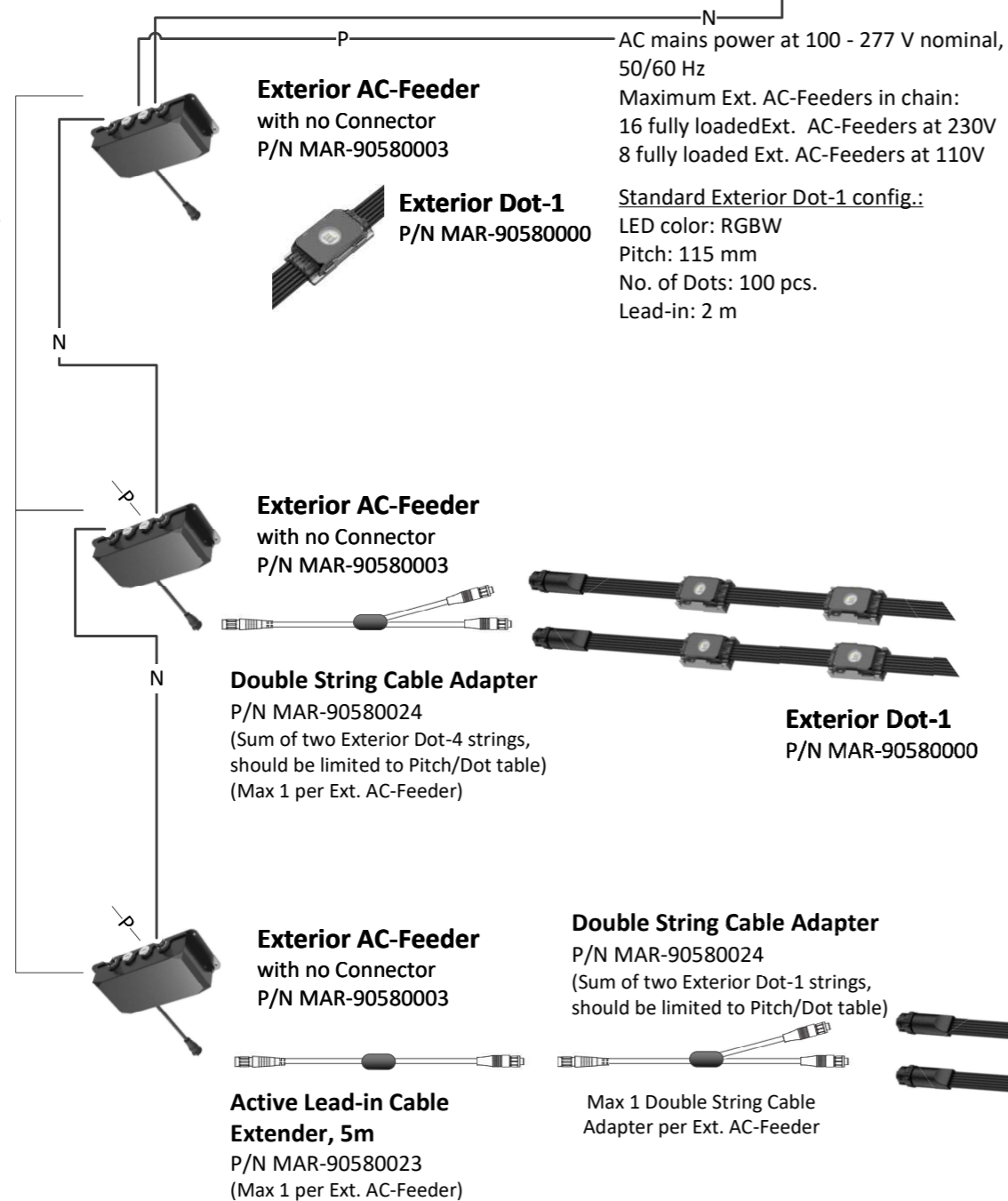
Media Server (Provided by others)

Art-Net / sACN

P3

Maximum 100m Ethernet Cable between Controller and PowerPort (extendable via Gigabit Switch or conversion to fiber)

Exterior Dot-1 generic layout



Max. distance between source (Light Controller/P3 Controller/Network Switch) and first Ext. AC-Feeder in daisy-chain or distance between two daisy-chained Ext. AC-Feeder: **90m***

Max. distance between two daisy-chained Ext. AC-Feeder: **90m***

Maximum Exterior Dot-1 per Ext. AC-Feeder
Up to 100 Exterior Dot-1's

2 strings summing up to maximum 100 Exterior Dot-1's can be applied by using Double String Cable Adapter

Accessories:

Glare Shield Ext. Dot 1, Set of 10
P/N MAR-90580005 (Grey Version)
P/N MAR-90580029 (Black Version)

White Diffuser Dome Ext. Dot-1, Set of 10
P/N MAR-90580011 (Grey version)
P/N MAR-90580014 (Black version)

Mounting Bracket Ext. Dot-1, Set of 10
P/N MAR-90580008 (Grey Version)
P/N MAR-90580032 (Black Version)

Mounting Profile Ext. Dot-1, 2m, Alu
P/N MAR-90580017
P/N MAR-90580026 (Set of End Caps)



Dot Spacing [mm]	2m Lead-in Cable	5m Lead-in Cable	5m Lead-in Cable + 5m Active Lead-in Cable Extender
	Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)
115 std.	100 (L: 13,4m)	100 (L: 16,4m)	100 (L: 21,4m)
200	100 (L: 21,8m)	100 (L: 24,8m)	100 (L: 29,8m)
300	100 (L: 31,7m)	100 (L: 34,7m)	100 (L: 39,7m)
400	100 (L: 41,6m)	100 (L: 44,6m)	100 (L: 49,6m)
500	100 (L: 51,5m)	100 (L: 54,5m)	100 (L: 59,5m)
600	100 (L: 61,4m)	100 (L: 64,4m)	100 (L: 69,4m)
700	100 (L: 71,3m)	100 (L: 74,3m)	98 (L: 77,9m)
800	100 (L: 81,2m)	98 (L: 82,6m)	95 (L: 82,2m)
900	98 (L: 89,3m)	95 (L: 89,6m)	91 (L: 91,0m)
1000	95 (L: 96,0m)	92 (L: 96,0m)	88 (L: 97,0m)
1100	92 (L: 102,1m)	89 (L: 101,8m)	85 (L: 102,4m)
1200	90 (L: 108,8m)	86 (L: 107,0m)	82 (L: 107,2m)
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1600	79 (L: 126,8m)	76 (L: 125,0m)	73 (L: 125,2m)
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1800	72 (L: 129,8m)	70 (L: 129,2m)	68 (L: 130,6m)
1900	68 (L: 129,3m)	67 (L: 130,4m)	65 (L: 131,6m)
2000	65 (L: 130m)	64 (L: 131,0m)	62 (L: 132,0m)

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	115 mm (4.5 in.)
Minimum pixel spacing (pitch):	115 mm (4.5 in.)
Maximum pixel spacing (pitch):	2000 mm (78.8 in.)
Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)**

One pixel = one Dot
** Can be extended 5m by using Active Lead-in Cable Extender

Please contact your local sales person for customized Exterior Dot-1 strings.

* distances can be extended via Gigabit Switch or conversion to fiber

GENERIC SYSTEM DIAGRAM – EXTERIOR DOT-1 PRO WITH EXTERIOR AC-FEEDER (HYBRID CABLE)



Light Controller



(PROVIDED BY OTHERS)

- 170 Exterior Dot-1 Pro per DMX universe (RGB Mode)

P3 System Controllers



P3-PC System Controller
Free download

- Up to 20.736 pixels
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P3-175 System Controller
Video signal processor
P/N 90721100

- Up to 520.000 pixels
- Supports input resolutions up to 1920x1080
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P3-275 System Controller
Video signal processor
P/N 90721101

- Up to 1.040.000 pixels
- Supports input resolutions up to 3840x2160
- Up to 6000 Exterior Feeders

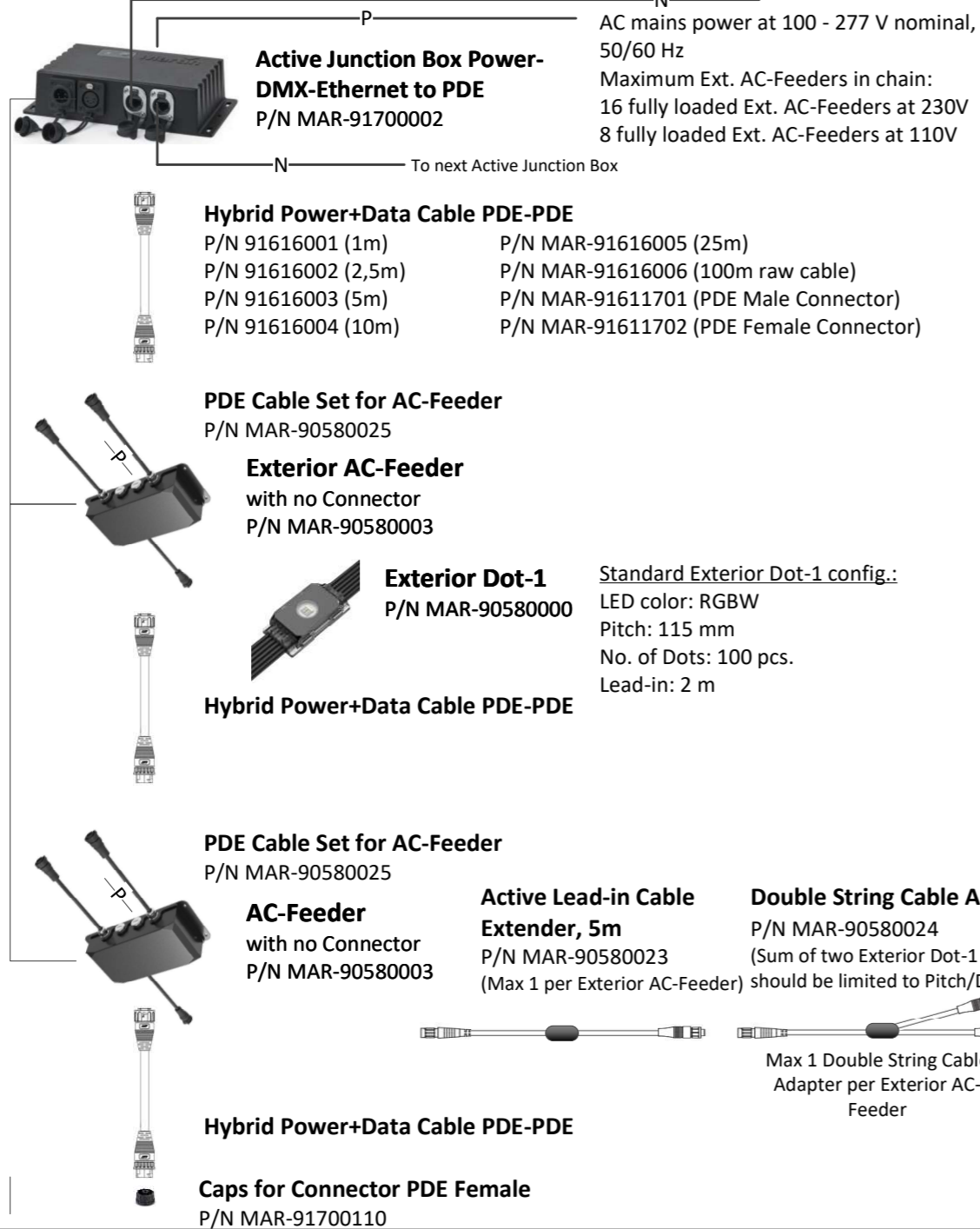
Media Server (Provided by others)

Art-Net / sACN

P3

Maximum 100m Ethernet Cable between Controller and PowerPort (extendable via Gigabit Switch or conversion to fiber)

Exterior Dot-1 generic layout



Max. distance between source (Active Junction Box) and first Ext. AC-Feeder in daisy-chain or distance between two daisy-chained Ext. AC-Feeder: 90m

Max. distance between two daisy-chained Ext. AC-Feeder: 90m

Install blanking caps on all unused female connectors at end of chains

Maximum Exterior Dot-1 per Ext. AC-Feeder
Up to 100 Exterior Dot-1's

2 strings summing up to maximum 100 Exterior Dot-1's can be applied by using Double String Cable Adapter

Alternative to Active Junction Box:



Accessories:

Glare Shield Ext. Dot 1, Set of 10
P/N MAR-90580005 (Grey Version)
P/N MAR-90580029 (Black Version)

White Diffuser Dome Ext. Dot-1, Set of 10
P/N MAR-90580011 (Grey version)
P/N MAR-90580014 (Black version)

Mounting Bracket Ext. Dot-1, Set of 10
P/N MAR-90580008 (Grey Version)
P/N MAR-90580032 (Black Version)

Mounting Profile Ext. Dot-1, 2m, Alu
P/N MAR-90580017
P/N MAR-90580026 (Set of End Caps)



Dot Spacing [mm]	2m Lead-in Cable	5m Lead-in Cable	5m Lead-in Cable + 5m Active Lead-in Cable Extender
	Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)	Max. Number Of Dots per String/Ext. AC-Feeder [Pcs] (Max. length of the Ext. Dot-1 string)
115 std.	100 (L.: 13,4m)	100 (L.: 16,4m)	100 (L.: 21,4m)
200	100 (L.: 21,8m)	100 (L.: 24,8m)	100 (L.: 29,8m)
300	100 (L.: 31,7m)	100 (L.: 34,7m)	100 (L.: 39,7m)
400	100 (L.: 41,6m)	100 (L.: 44,6m)	100 (L.: 49,6m)
500	100 (L.: 51,5m)	100 (L.: 54,5m)	100 (L.: 59,5m)
600	100 (L.: 61,4m)	100 (L.: 64,4m)	100 (L.: 69,4m)
700	100 (L.: 71,3m)	100 (L.: 74,3m)	98 (L.: 77,9m)
800	100 (L.: 81,2m)	98 (L.: 82,6m)	95 (L.: 82,2m)
900	98 (L.: 89,3m)	95 (L.: 89,6m)	91 (L.: 91,0m)
1000	95 (L.: 96,0m)	92 (L.: 96,0m)	88 (L.: 97,0m)
1100	92 (L.: 102,1m)	89 (L.: 101,8m)	85 (L.: 102,4m)
1200	90 (L.: 108,8m)	86 (L.: 107,0m)	82 (L.: 107,2m)
1300	87 (L.: 113,8m)	83 (L.: 111,6m)	80 (L.: 112,7m)
1400	85 (L.: 119,6m)	80 (L.: 115,6m)	78 (L.: 117,8m)
1500	82 (L.: 123,5m)	78 (L.: 120,5m)	76 (L.: 122,5m)
1600	79 (L.: 126,8m)	76 (L.: 125,0m)	73 (L.: 125,2m)
1700	75 (L.: 127,8m)	73 (L.: 127,4m)	71 (L.: 129,0m)
1800	72 (L.: 129,8m)	70 (L.: 129,2m)	68 (L.: 130,6m)
1900	68 (L.: 129,3m)	67 (L.: 130,4m)	65 (L.: 131,6m)
2000	65 (L.: 130m)	64 (L.: 131,0m)	62 (L.: 132,0m)

Configuration limitations:

Maximum number of pixels per string:	100 Pcs.
Standard pixel spacing (pitch):	115 mm (4.5 in.)
Minimum pixel spacing (pitch):	115 mm (4.5 in.)
Maximum pixel spacing (pitch):	2000 mm (78.8 in.)
Standard lead-in cable length:	2000 mm (78.8 in.)
Maximum lead-in cable length:	5000 mm (196.9 in.)**

One pixel = one Dot
** Can be extended 5m by using Active Lead-in Cable Extender

Please contact your local sales person for customized Exterior Dot-1 strings.

Limitation Page: Number of Exterior Dot Pro's vs. Cable length

Full Power Mode:			
Number of Exterior Dot Pro's vs. Cable length for P3 PowerPort 2000 and P3 PowerPort 500 IP			
Max. distance between P3 PowerPort and last Exterior DC-Feeder in daisy-chain[m]*	Exterior Dot-1 Pro	Exterior Dot-4 Pro	Exterior Dot-9 Pro
	Max. Number Of Dots per P3 PowerPort output [Pcs]	Max. Number Of Dots per P3 PowerPort output [Pcs]	Max. Number Of Dots per P3 PowerPort output [Pcs]
40	400	256	144
45	400	256	144
50	381	242	138
60	353	224	129
70	308	189	111
80	270	168	101
90	238	148	89
100	215	136	81
110	196	123	77
120	178	115	70
130	163	106	66
140	150	100	62
150	140	86	56
160	130	80	53
170	120	74	48
180	113	71	46
190	105	66	45
200	100	62	44

Half Power Mode:			
Number of Exterior Dot Pro's vs. Cable length for P3 PowerPort 2000 and P3 PowerPort 500 IP			
Max. distance between P3 PowerPort and last Exterior DC-Feeder in daisy-chain[m]*	Exterior Dot-1 Pro	Exterior Dot-4 Pro	Exterior Dot-9 Pro
	Max. Number Of Dots per P3 PowerPort output [Pcs]	Max. Number Of Dots per P3 PowerPort output [Pcs]	Max. Number Of Dots per P3 PowerPort output [Pcs]
40	750	477	268
45	730	465	262
50	700	448	252
60	645	420	237
70	550	370	209
80	500	320	180
90	445	288	160
100	400	256	144
110	360	236	130
120	320	211	119
130	300	192	108
140	280	187	101
150	270	170	95
160	240	157	88
170	230	147	82
180	220	140	79
190	210	132	75
200	200	128	72

*Max. distance between source (P3 PowerPort) and first Ext DC-Feeder in daisy-chain: **90m**. Use DCE DataSplitterBooster IP to be able to extend the 90m.
Maximum 16 DC-feeders in a daisy-chain

Full Power Mode:			
Number of Exterior Dot Pro's vs. Cable length for Martin DCE PSU 240 IP			
Max. distance between P3 PowerPort and last Exterior DC-Feeder in daisy-chain[m]**	Exterior Dot-1 Pro	Exterior Dot-4 Pro	Exterior Dot-9 Pro
	Max. Number Of Dots per P3 PowerPort output [Pcs]	Max. Number Of Dots per P3 PowerPort output [Pcs]	Max. Number Of Dots per P3 PowerPort output [Pcs]
50	200	128	72
60	200	128	72
70	200	128	72
80	195	122	69
90	190	119	67
100	182	115	65
110	172	111	63
120	165	108	62
130	159	104	60
140	153	100	57
150	145	93	54
160	132	86	51
170	125	82	48
180	117	77	45
190	110	72	43
200	100	68	40

Half Power Mode:			
Number of Exterior Dot Pro's vs. Cable length for Martin DCE PSU 240 IP			
Max. distance between P3 PowerPort and last Exterior DC-Feeder in daisy-chain[m]**	Exterior Dot-1 Pro	Exterior Dot-4 Pro	Exterior Dot-9 Pro
	Max. Number Of Dots per P3 PowerPort output [Pcs]	Max. Number Of Dots per P3 PowerPort output [Pcs]	Max. Number Of Dots per P3 PowerPort output [Pcs]
50	400	256	144
60	380	240	136
70	370	234	133
80	360	228	129
90	350	221	126
100	340	215	122
110	330	209	119
120	320	203	116
130	310	197	112
140	300	192	108
150	280	175	99
160	260	163	94
170	245	154	88
180	225	145	83
190	215	137	78
200	200	128	72

Max. distance between source (Martin DCE PSU 240 IP) and first Ext DC-Feeder in daisy-chain: **90m. Use DCE DataSplitterBooster IP to be able to extend the 90m.
Maximum 16 DC-feeders in a daisy-chain