

Core Vertical Switch Management Platform

System Overview



Meeting the challenges of Core Switch Cable Management

The Core Vertical Switch Management (VSM) platform is a purpose designed solution to the unique cable management issues known to arise when using Vertical Core switches.

This first version of the Core VSM platform is designed for use with the Cisco Nexus 7010 Switch.

Product Features

- **Designed to fit in a 800mm wide cabinet**
Supports the deployment of a core switch in the core networking aisle whilst minimizing the usage of expensive white space.
- **Removes the need for cable management at the side of the cabinet**
Allows deployment in smaller active cabinets therefore reducing cabinet costs.
- **Clean representation of the switch ports and ease of access**
The vertical patch management allows the cabling to be deployed neatly and in the same direction as the blade and port presentation. The ability to patch vertically with the line cards brings neatness and manageability to the ports at the switch.
- **One length of patchcord philosophy**
Reduces inventory holding costs whilst allows flexibility in planning moves adds and changes.
- **Designed to support UCP**
Quick-Fit cassettes and modules allows mix of copper and fiber in the same panel

Supports environments where copper technologies need to be used to complement fiber installs, for example, backup networks in production environments.

Core Vertical Switch Management Platform

System Overview

Rack Mount Quick-Fit Panel

FEATURES

- Accepts up to 9 Quick-Fit modules
- 3HU
- Including cable support bars with tie down options and Fiber Optic tail over length

Color: Black (RAL 9005) and galvanised finish



ORDERING INFORMATION

Description	Part Number
Rack Mount Quick-Fit Panel	0-1671907-1

Cable Management Tray

FEATURES

- Optimized to replace Cisco Nexus 7010 switch cable manager
- Provides vertical patch cord guiding

Color: Black (RAL 9005)



ORDERING INFORMATION

Description	Part Number
Cable Management Tray for Cisco Nexus 7010	0-1671633-1

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System Overview

MRJ21 XG Quick-Fit Cassette 8 Port (10 Gb/s)

FEATURES

- Optimized for use in combination with UCP patch panels: plug & play deployment
- Compatible with MRJ21 XG cable assemblies for 10 GbE performance
- Front side: 8 x RJ45 jack (2 rows of 4 jacks)
- Rear side: 2 x MRJ21 receptacle
- Factory terminated and tested solution
- NOTE: The MRJ21 XG System for 10 Gb/s is not backwards compatible to the MRJ21 1 Gb/s solution!



ORDERING INFORMATION

Description	Part Number
MRJ21 XG Quick-Fit cassette for 10GBase-T	0-2153115-1

MRJ21 Quick-Fit Cassette 12 port (1 Gb/s)

FEATURES

- Pre-terminated Quick-Fit cassette
- High Performance TP Cabling for guaranteed application performance
- High-density, small form factor connectivity
- Modular solution
- Automatic bonding by design



ORDERING INFORMATION

Description	Part Number
MRJ21 Quick-Fit cassette for 1000Base-T	0-1711970-1

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Cat. 6_A S/FTP Patch Cord RJ-45 LSZH

FEATURES

- Exceeds Cat. 6_A performance suitable for 10 Gb/s data transmission
- Cat. 7 S/FTP stranded cable
- LSZH sheath
- Color-matched snagless boots
- Universal B-wiring



ORDERING INFORMATION

Description	Part Number
Patch Cord RJ45 Cat. 6 _A S/FTP, White	0-2153188-1

Cat. 5E F/UTP Patch Cord

FEATURES

- Cat. 5E according to ISO/IEC 11801 and EN-50173-1
- 4 Pair stranded SF/UTP cable
- LSZH sheath
- Color-matched snagless boots
- Universal wiring



ORDERING INFORMATION

Description	Part Number
Patch Cord RJ45 Cat 5E F/UTP, White	0-2153190-1

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MRJ21 XG to MRJ21 XG cable assemblies (10 Gb/s shielded)

FEATURES

- Friendly field installable 10 GbE solution
- Factory terminated and 100% tested solution
- Dense double blade connector with offset jackscrews for latching
- 16 pair shielded cable with AWG 26 solid conductors

Color: White

ORDERING INFORMATION

Description	Part Number
MRJ21 XG to MRJ21 XG, 10 Gb/s, 180°-180° back shell; LSZH sheath	Y-2153052-X
MRJ21 XG to MRJ21 XG, 10 Gb/s, 180°-45° back shell; LSZH sheath	Y-2153078-X



Y- -X	Length
0- -3	3 m
0- -5	5 m
1- -0	10 m
1- -5	15 m
2- -0	20 m
2- -5	25 m
3- -0	30 m
3- -5	35 m
4- -0	40 m

MRJ21 to MRJ21 cable assemblies (1 Gb/s shielded)

FEATURES

- Field installable 1 GbE solution
- Enhanced screening and improved EMC
- Factory terminated and 100 % tested solution
- Dense double blade connector with offset jackscrews for latching
- 1.5 to 4 times the port density of 2 x 6 Stacked Mod Jack (RJ-45)
- 24 pair shielded cable with AWG 24 solid conductors

Color: White

ORDERING INFORMATION

Description	Part Number
MRJ21 to MRJ21, 1 Gb/s, 180°-180° back shell; LSZH sheath	Y-1711758-X
MRJ21 to MRJ21, 1 Gb/s, 180°-45° back shell; LSZH sheath	Y-1711774-X



Y- -X	Length
0- -5	5 m
1- -0	10 m
1- -5	15 m
2- -0	20 m
2- -5	25 m
3- -0	30 m
3- -5	35 m
4- -0	40 m
5- -0	50 m

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MPOptimate to LC Quick-Fit cassettes

FEATURES

- Pre-terminated low loss cassettes
- Front: 6 x optimized LC Duplex or 6 x optimized LC Quad
- Back: 1 or 2 low loss MPOptimate connector(s)
- Available in straight or flipped pair version
- Optical performance for OM3/OM4:
IL \leq 0.35 dB/cassette (max.)
RL \geq 27 dB
- Port number labeling and additional label strip included



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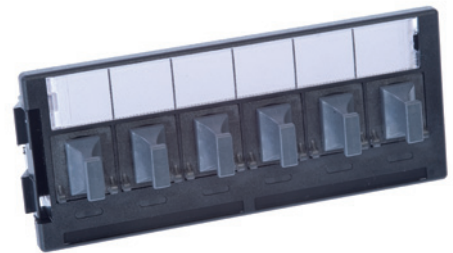
Description	Pairs straight Part Number	Pairs flipped Part Number
1 x MPOptimate to 6 x LC Duplex (12 fiber); OM4 XG _A 10 Gb/s	0-1671226-5	1-1671226-5
1 x MPOptimate to 6 x LC Duplex (12 fiber); OM3 XG 10 Gb/s	0-1671226-3	1-1671226-3
2 x MPOptimate to 6 x LC Quad (24 fiber); OM4 XG _A 10 Gb/s	0-1671227-5	1-1671227-5
2 x MPOptimate to 6 x LC Quad (24 fiber); OM3 XG 10 Gb/s	0-1671227-3	1-1671227-3

MPOptimate coupler Quick-Fit module

FEATURES

- Quick-Fit module with 6x or 12x MPO couplers (supporting 72 or 144 fibers respectively)
- Port number labeling and additional label strip included
- Always ensure that the gender of intermated MPO connectors is Male to Female

Color: Black (RAL 9005)



ORDERING INFORMATION

Description	Part Number
6 x MPO coupler module	0-1671200-1
12 x MPO coupler module	0-1711987-1

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MPOptimate LC patch cords

FEATURES

- Patch cords with optimized LC connectors
- Cable performance: OM4 or OM3 XG 10 Gb/s; LSZH construction
Optical performance: IL \leq 0.15 dB; RL \geq 35 dB



ORDERING INFORMATION

Description	Part Number
Patch cord LC Duplex - LC Duplex; OM3 XG 10 Gb/s	Y-2160506-1
Patch cord LC Duplex - LC Duplex; OM4 XG 10 Gb/s	Y-2160506-2

MPOptimate pre-terminated trunks

FEATURES

- Loose tube cable construction, ideal for routing through cable tray or raceway
- Cable terminated with low loss 12 fiber MPOptimate connectors
- Terminated with female MPO connectors (male versions on request)
- OM3, OM4 cable performance, LSZH construction
- Connector performance for OM3/OM4: IL \leq 0.35 dB (max.); RL \geq 28 dB
- The trunks are equipped with midi fan-out and round cable MPO tails protected with transparent protection sleeve
- Factory pre-terminated assemblies
- All cords with protocol, for constant and reliable quality
- Available in 12, 24 and 48 fiber (other fiber counts on request)
- Packaging: \leq 50 m in box, >50 m on reel
- Re-usable pulling socks can be ordered separately. Part Number 0-2055567-1 for 12 and 24 fiber trunk and 0-2055567-2 for 48 fiber trunk



Color: Aqua

ORDERING INFORMATION

Description	Part Number 2-99 m - table A	Part Number 100-500 m - table B
12 fiber; OM4 XGA 10 Gb/s; Straight; Available lengths: see page 8	Y-2055576-X	Y-2055577-X
24 fiber; OM4 XGA 10 Gb/s; Straight; Available lengths: see page 8	Y-2055578-X	Y-2055579-X
48 fiber; OM4 XGA 10 Gb/s; Straight; Available lengths: see page 8	Y-2160075-X	Y-2160076-X
12 fiber; OM3 XG 10 Gb/s; Straight; Available lengths: see page 8	Y-2055611-X	Y-2055612-X
24 fiber; OM3 XG 10 Gb/s; Straight; Available lengths: see page 8	Y-2055715-X	Y-2055716-X
48 fiber; OM3 XG 10 Gb/s; Straight; Available lengths: see page 8	Y-2160073-X	Y-2160074-X

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Lengths tables for MPOptimate trunks and fan-out assemblies

LENGTH TABLE A

Y- X	Length	Y- X	Length	Y- X	Length	Y- X	Length	Y- X	Length	Y- X	Length	Y- X	Length	Y- X	Length	Y- X	Length
0- 2	2 m	1- 3	13 m	2- 4	24 m	3- 5	35 m	4- 6	46 m	5- 7	57 m	6- 8	68 m	7- 9	79 m	9- 0	90 m
0- 3	3 m	1- 4	14 m	2- 5	25 m	3- 6	36 m	4- 7	47 m	5- 8	58 m	6- 9	69 m	8- 0	80 m	9- 1	91 m
0- 4	4 m	1- 5	15 m	2- 6	26 m	3- 7	37 m	4- 8	48 m	5- 9	59 m	7- 0	70 m	8- 1	81 m	9- 2	92 m
0- 5	5 m	1- 6	16 m	2- 7	27 m	3- 8	38 m	4- 9	49 m	6- 0	60 m	7- 1	71 m	8- 2	82 m	9- 3	93 m
0- 6	6 m	1- 7	17 m	2- 8	28 m	3- 9	39 m	5- 0	50 m	6- 1	61 m	7- 2	72 m	8- 3	83 m	9- 4	94 m
0- 7	7 m	1- 8	18 m	2- 9	29 m	4- 0	40 m	5- 1	51 m	6- 2	62 m	7- 3	73 m	8- 4	84 m	9- 5	95 m
0- 8	8 m	1- 9	19 m	3- 0	30 m	4- 1	41 m	5- 2	52 m	6- 3	63 m	7- 4	74 m	8- 5	85 m	9- 6	96 m
0- 9	9 m	2- 0	20 m	3- 1	31 m	4- 2	42 m	5- 3	53 m	6- 4	64 m	7- 5	75 m	8- 6	86 m	9- 7	97 m
1- 0	10 m	2- 1	21 m	3- 2	32 m	4- 3	43 m	5- 4	54 m	6- 5	65 m	7- 6	76 m	8- 7	87 m	9- 8	98 m
1- 1	11 m	2- 2	22 m	3- 3	33 m	4- 4	44 m	5- 5	55 m	6- 6	66 m	7- 7	77 m	8- 8	88 m	9- 9	99 m
1- 2	12 m	2- 3	23 m	3- 4	34 m	4- 5	45 m	5- 6	56 m	6- 7	67 m	7- 8	78 m	8- 9	89 m		

LENGTH TABLE B

Y- X	Length	Y- X	Length	Y- X	Length	Y- X	Length	Y- X	Length	Y- X	Length	Y- X	Length	Y- X	Length	Y- X	Length
9- 9	100 m	1- 1	111 m	2- 2	122 m	3- 3	133 m	4- 4	148 m	5- 5	170 m	6- 6	192 m	7- 7	270 m	8- 8	460 m
0- 1	101 m	1- 2	112 m	2- 3	123 m	3- 4	134 m	4- 5	150 m	5- 6	172 m	6- 7	194 m	7- 8	280 m	8- 9	480 m
0- 2	102 m	1- 3	113 m	2- 4	124 m	3- 5	135 m	4- 6	152 m	5- 7	174 m	6- 8	196 m	7- 9	290 m	9- 0	500 m
0- 3	103 m	1- 4	114 m	2- 5	125 m	3- 6	136 m	4- 7	154 m	5- 8	176 m	6- 9	198 m	8- 0	300 m		
0- 4	104 m	1- 5	115 m	2- 6	126 m	3- 7	137 m	4- 8	156 m	5- 9	178 m	7- 0	200 m	8- 1	320 m		
0- 5	105 m	1- 6	116 m	2- 7	127 m	3- 8	138 m	4- 9	158 m	6- 0	180 m	7- 1	210 m	8- 2	340 m		
0- 6	106 m	1- 7	117 m	2- 8	128 m	3- 9	139 m	5- 0	160 m	6- 1	182 m	7- 2	220 m	8- 3	360 m		
0- 7	107 m	1- 8	118 m	2- 9	129 m	4- 0	140 m	5- 1	162 m	6- 2	184 m	7- 3	230 m	8- 4	380 m		
0- 8	108 m	1- 9	119 m	3- 0	130 m	4- 1	142 m	5- 2	164 m	6- 3	186 m	7- 4	240 m	8- 5	400 m		
0- 9	109 m	2- 0	120 m	3- 1	131 m	4- 2	144 m	5- 3	166 m	6- 4	188 m	7- 5	250 m	8- 6	420 m		
1- 0	110 m	2- 1	121 m	3- 2	132 m	4- 3	146 m	5- 4	168 m	6- 5	190 m	7- 6	260 m	8- 7	440 m		

Core Vertical Switch Management Platform

System Overview

MPOptimate Fan-Out cable assemblies

FEATURES

- Low loss transition from MPO to LC tails 2 mm
- Terminated with male MPOptimate connectors
- OM3, OM4 cable performance, LSZH construction



ORDERING INFORMATION

Description	Part Number
MPO male -LC Fan-out OM4 XG 10 Gb/s for 48 port blade	0-2160537-1
MPO male -LC Fan-out OM4 XG 10 Gb/s for 32 port blade	0-2160538-1

MPOptimate patch cords

FEATURES

- Low loss MPOptimate 12 fiber MPO round cable patch cord
- Terminated with male and/or female MPOptimate connectors
- Cable performance: OM4; OM3 XG 10 Gb/s; LSZH construction
- Connector performance: IL \leq 0.35 dB (max.); RL \geq 28 dB
- Available in different lengths, see length table
- Available in female/female and male/female version in straight and total flipped wiring



Color: Aqua

Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length	Y- -X	Length
9- -0	0,5	9- -5	5,5	1- -1	11	2- -1	21	3- -1	31	4- -1	41	5- -1	51	6- -1	61	7- -1	71
0- -1	1,0	0- -6	6,0	1- -2	12	2- -2	22	3- -2	32	4- -2	42	5- -2	52	6- -2	62	7- -2	72
9- -1	1,5	9- -6	6,5	1- -3	13	2- -3	23	3- -3	33	4- -3	43	5- -3	53	6- -3	63	7- -3	73
0- -2	2,0	0- -7	7,0	1- -4	14	2- -4	24	3- -4	34	4- -4	44	5- -4	54	6- -4	64	7- -4	74
9- -2	2,5	9- -7	7,5	1- -5	15	2- -5	25	3- -5	35	4- -5	45	5- -5	55	6- -5	65	7- -5	75
0- -3	3,0	0- -8	8,0	1- -6	16	2- -6	26	3- -6	36	4- -6	46	5- -6	56	6- -6	66	7- -6	76
9- -3	3,5	9- -8	8,5	1- -7	17	2- -7	27	3- -7	37	4- -7	47	5- -7	57	6- -7	67	7- -7	77
0- -4	4,0	0- -9	9,0	1- -8	18	2- -8	28	3- -8	38	4- -8	48	5- -8	58	6- -8	68	7- -8	78
9- -4	4,5	9- -9	9,5	1- -9	19	2- -9	29	3- -9	39	4- -9	49	5- -9	59	6- -9	69	7- -9	79
0- -5	5,0	1- -0	10	2- -0	20	3- -0	30	4- -0	40	5- -0	50	6- -0	60	7- -0	70	8- -0	80

ORDERING INFORMATION

Description	Part Number
12 fiber M/F MPO patch cable A wiring OM3	2160139-1
12 fiber M/F MPO patch cable A wiring OM4	2160140-1
12 fiber M/F MPO patch cable B wiring OM3	2160197-1
12 fiber M/F MPO patch cable B wiring OM4	2160198-1

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SYSTEM OVERVIEW

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315482BE 01/13 Original © 2013