

Załącznik nr 3 – konfiguracja urządzeń aktywnych

MPLS Węzeł Szkieletowy: 5 szt

MODEL	DESCRIPTION	Qty
BASE SYSTEMS		
MX480-PREMIUM3-DC	MX480 Premium Bundle with redundant components, DC Power	1
RE-S-1800X4-16G-BB	Routing Engine, Quad Core 1800Ghz with 16G Memory, Upgrade for Base Bundle, MX series	2
PWR-MX480-2400-DC-BB	2400W DC Power Supply, configurable option in base bundle	4
FFANTRAY-MX480-HC-BB	MX480 High Capacity fantray, configurable option in base bundle	1
SYSTEM SOFTWARE		
JUNOS-WW-64	JUNOS 64-bit Internet Software Worldwide Version	1
INTERFACE CARD		
MX-MPC2E-3D-Q	MX-MPC2E-3D-Q line card bundle,	2
MIC-3D-4XGE-XFP	4x10G MIC for MX, requires optics sold separately. Only supported on MX-MPC2 line cards	2
MIC-3D-2XGE-XFP	2x10G MIC for MX, requires optics sold separately	1
MIC-3D-20GE-SFP	20x10/100/1000 MIC for MX, requires optics sold separately	1

MPLS Węzeł dostępowy – 8 szt

Part Number	Part Description	Qty
MX104-DC	MX104 chassis with 4 MIC slots, 4x10GE SFP+ built-in ports (license reqd for activation), DC power supply, Fan Tray w/Filter, packet forwarding engine & routing engine	1
RE-MX104-S	Routing Engine spare with 4 GB of DDR3 RAM	1
PWR-MX104-DC-S	MX104 DC power supply spare	1
MIC-3D-20GE-SFP-E	MIC-3D-20GE-SFP, enhanced (MAC SEC & TIMING PHY)	1

System zarządzania MPLS

	Junos Space	
MODEL	DESCRIPTION	Qty
BASE SYSTEMS		
Junos Platforma hardware	Serwer : np.. IBM x3550 M4 z procesorem E5-2630 CPU: 2 x Intel Xeon E5-263- 2.6 Ghz RAM: 32 GB HDD: 6 x 300GB SAS ServeRAID M5110	1
APPLICATION PACKAGE		
JS-PLATFORM	Junos Space Network Management Platform with 4 Cores	1
JS-SVADIR-100	JS Svc Activation Dir for 100 devices	1

DWDM Węzły Szkieletowe i Dostępowe

Component Name	Description	Part Number	Total Quantity	Dimerini	Dworszowice-Koscierne	Lututów	Opoczno	Osjaków	Pejczno	Poswiętne	Protoków Tryb.	Radomsko	Książnica	Sieradz	Sitnica	Wielun	Wieruszów	Zarnów
Required Components			1106	443	443	443	139	433	142	433	446	140	444	448	443	122	123	433
Accessory																		
CBL/DC/300/3AWG 14/TB/R-/B+	DC Power Cable, 3m length, 3 wires AWG14 red (-48V) / black (return)/green-yellow with overall jacket, ring terminal at equipment end	1036700021	40	2	2	2	4	2	4	2	2	4	2	2	2	4	4	2
DM/2HU5	Dummy card 2,5HU	0063709902	5	0	0	0	1	0	1	0	0	1	0	0	0	1	1	0
DM/5HU	Dummy card 5HU	0063709901	148	10	10	10	10	10	10	10	50	10	10	50	10	44	44	0
Amplifier																		
EDFA-C-D20-VGC-DM	Optical Amplifier, Double Stage 20 dBm maximum output power, variable gain controlled (C-Band) with Dual Monitor	1063709051	2	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
EDFA-C-D20-VLGC-DM	Optical Amplifier, Double Stage 20 dBm maximum output power, variable low gain controlled (C-Band), dual monitoring ports	1063709052	26	1	1	1	3	1	4	1	1	3	1	1	1	3	3	1
Attenuator and VOA																		
ATT/xxdB/LC	Optical Attenuator LC Connector	00580012xx	80	3	3	3	9	3	1	3	3	9	4	3	3	9	9	3

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Channel Module																		
2WCC-PCN-10G	10G Channel Card Core Type with 2 pluggable network and 2 pluggable client interfaces	1063701000-01	65	2	2	2	9	2	9	2	3	9	2	3	2	8	8	2
Common Module																		
FAN/Plug-In	Fan Module for 7HU Shelf	0042700001-04	20	1	1	1	2	1	2	1	1	2	1	1	1	2	2	1
NCU-II	Network Element Control Unit with high performance processor, 2.5 HU high, 2 x RJ45 Ethernet ports and 1 x serial interface, additional RTU license required	1063708412	13	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
PSCU	Passive Shelf Control Unit	1063708440	13	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1
PSU/7HU-DC	Power Supply Module (400W) DC for 7HU Shelf	0040700001	40	2	2	2	4	2	4	2	2	4	2	2	2	4	4	2
SCU	Shelf Control Unit, 2.5 HU high for small slots	0063708420-03	20	1	1	1	2	1	2	1	1	2	1	1	1	2	2	1
DCM																		
DCF-M/010/SSMF	Managed DCM using dispersion compensating fiber (DCF), compensating 10km Standard Single Mode Fiber	0063709221	6	1	1	0	0	0	2	0	0	1	1	0	0	0	0	0
DCF-M/020/SSMF	Managed DCM using dispersion compensating fiber (DCF), compensating 20km	0063709222	2	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
DCF-M/030/SSMF	Managed DCM using dispersion compensating fiber (DCF), compensating 30km Standard Single Mode Fiber	1063709223	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
DCF-M/040/SSMF	Managed DCM using dispersion compensating fiber (DCF), compensating 40km Standard Single Mode Fiber	0063709224	6	0	0	1	1	0	0	1	0	0	0	0	0	1	2	0
DCF-M/050/SSMF	Managed DCM using dispersion compensating fiber (DCF), compensating 50km Standard Single Mode Fiber	1063709225	6	0	0	0	1	0	2	0	1	1	0	0	0	1	0	0
DCF-M/060/SSMF	Managed DCM using dispersion compensating fiber (DCF), compensating 60km Standard Single Mode Fiber	0063709226	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
DCF-M/070/SSMF	Managed DCM using dispersion compensating fiber (DCF), compensating 70km Standard Single Mode Fiber	1063709227	2	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
DCF-M/100/SSMF	Managed DCM using dispersion compensating fiber (DCF), compensating 100km Standard Single Mode Fiber	0063709230	2	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Filter																		
CCM-C80/8	8-port Colorless Channel Module, any 8 out of 80 channels (50GHz spaced) in C-Band, WSS based	1063708340-01	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0

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