Spare Component Recommendations

This appendix provides a recommended quantity of spare components to be stocked as part of a sparing program for the ASR 5000. This information should only be used as a guideline for designing a sparing program that meets your company's design, deployment, and availability goals.

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Important   Only fully-trained personnel, on-site or field engineering resources should exchange the Field Replaceable Units (FRUs) listed below.

Based on industry-leading redundancy and failover features incorporated within the system, Cisco recommends that the following minimum spare parts levels for any ASR 5000 deployment.

Table 1: Recommended FRU Parts Sparing Quantities

Component Name	Minimum number of spares	For every "n" number of deployed components
ASR 5000 Chassis with Midplane	1	20
Power Filter Unit (165A)	1	30
System Management Card (SMC)	1	10
Packet Services Card (PSC2 or PSC3)	1	12
Ethernet 1000/Quad Gig-E (QGLC) Card	1	20
10 Gigabit Ethernet Line Card (XGLC)	1	20
Optical Line Card (OLC2)	1	20
Channelized Line Card (CLC2)	1	20
Switch Processor I/O Card (SPIO)	1	18
Redundancy Crossbar Card (RCC)	1	30
Ethernet 10/100 Line Card (FLC2)	1	25
Gigabit Ethernet Line Card (GLC2)	1	25
Upper Fan Tray Unit	1	8

Component Name	Minimum number of spares	For every "n" number of deployed components
Lower Fan Tray Unit	1	5
Particulate Air Filter	1	1

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Based on industry-leading redundancy and failover features incorporated within the system, Cisco recommends that the following minimum spare parts levels for any ASR 5000 deployment.

Table 2: Recommended FRU Parts Sparing Quantities

Component Name	Minimum number of spares	For every "n" number of deployed components
ASR 5000 Chassis with Midplane	1	20
Power Filter Unit (165A)	1	30
System Management Card (SMC)	1	10
Packet Services Card (PSC2 or PSC3)	1	12
Ethernet 1000/Quad Gig-E (QGLC) Card	1	20
10 Gigabit Ethernet Line Card (XGLC)	1	20
Optical Line Card (OLC2)	1	20
Channelized Line Card (CLC2)	1	20
Switch Processor I/O Card (SPIO)	1	18
Redundancy Crossbar Card (RCC)	1	30
Ethernet 10/100 Line Card (FLC2)	1	25
Gigabit Ethernet Line Card (GLC2)	1	25
Upper Fan Tray Unit	1	8
Lower Fan Tray Unit	1	5

Component Name	Minimum number of spares	For every "n" number of deployed components
Particulate Air Filter	1	1