



Intel® Server Board S3420GP
Intel® Server System SR1630GP
Intel® Server Board SR1630HGP
Intel® Server Chassis SC5650UP

Calculated MTBF Estimates

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Enterprise Platform & Services Division

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MTBF Estimates for Intel® Server Board S3420GP

MTBF (hours)	Ambient Air Temperature (oC)	Air Temp. at Board for 10oC rise (oC)
137,000	45	55
165,000	40	50
263,000	30	40
335,000	25	35

MTBF Estimates for Intel® Server System SR1630GP

Subassembly (Server in 35oC ambient air)	Server Model	
	SR1630GP	
	MTBF	FIT
	(hours)	(flrs/10^9 hrs)
Intel® Server Board S3420GP	208,000	4,808
Power Supply (350W)	400,000	2,500
Cooling fans(Non-redundant)	100,000	10,000
PCI Riser Card	4,100,000	244
Front Panel board	16,000,000	63
Totals without motherboard =	78000	12,806
Totals with motherboard =	56700	17,614

MTBF Estimates for Intel® Server System SR1630HGP

Subassembly (Server in 35oC ambient air)	Server Model	
	SR1630HGP	
	MTBF	FIT
	(hours)	(flrs/10 ⁹ hrs)
Intel® Server Board S3420GP	208,000	4,808
Backplane board	760,000	1,316
Power Supply (350W)	400,000	2,500
Cooling fans(Non-redundant)	100,000	10,000
PCI Riser Card	4,100,000	244
Front Panel board	16,000,000	63
Totals without motherboard =	78000	12,806
Totals with motherboard =	52800	18,930

MTBF Estimates for Intel® Server Chassis SC5650UP

Subassembly (Server in 35°C ambient air)	Server Model	
	SC5650UP	
	MTBF (hours)	FIT (flrs/10 ⁹ hrs)
Intel® Server Board S3420GP	208,000	4,808
Power Supply (400W)	610,000	1,639
Cooling FAN	70,000	14,286
Front Panel	7,000,000	143
Intrusion switch	25,000,000	40
Totals without motherboard =	62,100	16,108
Totals with motherboard =	47,900	20,916