

M. T. B. F.							
		Model	TR-S2528D-2AC				
S.N.	Material code	Product Name	Specifications, Model	FITS	Quantity	Total	Remarks
1	WGICC-CON0156	PCA9547P W	8-channel I2C-bus multiplexer with reset, TSSOP24, -40~85°C	3.70	1	3.7	
2	WGICC-CON0374	954201BGL FT	Clock Generator for Intel PCI Express Mobile Chipset SRC:100MHz, TSSOP56, 0~70°C	3.70	1	3.7	
3	WGICC-CON0337	NX2124CST R	PWM, 2V~25V, 300kHz, 0~70°C, SOIC-8L, SMD	3.70	3	11.1	
4	WGICC-CON0343	RTL8382M-VB-CG	Soc,24 port GBE switch with Four GBE Uplinks, BGA-1006balls,29*29mm,0~70°C	3.70	1	3.7	
5	WGICC-CON0375	RTL8218D-CG	PHY, 8 QSGMII, 484pin PBGA,23mm*23mm, SMD	3.70	1	3.7	
6	WGICC-CON0077	RTL8214FC-VC-CG	PHY, 8 QSGMII, 8 COMBO, 484pin PBGA,23mm*23mm, SMD	9.30	1	9.3	
7	WGICC-DRI0071	SN74LVC24 5APWR	Line_Drv, 2.6V,8ch, 8b, Dual, Low, TSS OP-20, -40~85°C	7.80	1	7.8	
8	WGICC-DRI0112	SN74HC164 PWR	Line_Drv,5V,8ch,8b,Single,High, TSSOP-14,-40~85°C	7.80	4	31.2	
9	WGICC-DRI0153	APX823-29W5G7	µP Supervisor,1.1-5.5V,2.93V,Low,200ms,≤100nS,SOT25, -40~85°C	7.80	1	7.8	
10	WGICC-DRI0181	ME20N03	MOS, E_N,30V,39A,20mΩ, TO-252, -55°C~+150°C	7.80	6	46.8	
11	WGICC-DRI0172	SP3232EEN -L/TR	Driver-RS232,2Tx2Rx, 3-5V,SOIC-16, -40~85°C	7.80	1	7.8	
12	WGICC-MEM0215	EN25Q128-104FIP	Flash 512 M, SPI, 104MHz, 2.7V-3.6V, SOP-16, -40~85°C, Lead Free	2.50	1	2.5	
13	WGICC-MEM0183	MT47H64 M16HR-25E IT	1Gbit Industrial DDR2, 8Mb*16*8bank, 2.5ns@CL=5(DDR 2-800), 84-ball FBGA(8*12.5mm), -40°C≤TA≤85°C SMT	2.50	1	2.5	
14	WGICC-PCT0008	AZ1117CH-ADJTRG1	LDO, 1A, maximum input voltage 15V, adjustable, operating junction temperature -20~125°C, SOT-223 package, SMD.	1.70	3	5.1	

15	WGSCC-CAP0023	CC1206KKX 7R7BB225	MLCC,1206, X7R, 2.2UF/16V,±10%, -55°C~+125°C	2.00	3	6	
16	WGSCC-CAP0032	CC0805KRX 7R7BB105	MLCC,0805, X7R, 1UF/16V,±10%, Halogen Free,-55°C~+125°C	2.00	13	26	
17	WGSCC-CAP0037	T491D476 M016AT	antalum capacitor, 47uF/16V, ±20%, 7343-31, Lead Free, -55°C to +125°C	2.00	1	2	
18	WGSCC-CAP0245	CD286 16V/330μF	Aluminum electrolytic capacitor, 330μF/16V, ±20%, 8*12 mm, RAD3.5, 5000 hours	2.00	2	4	
19	WGSCC-CAP0080	CC0805KRX 7R9BB223	MLCC,0805, X7R, 22nF/50V,±10%, -55~+125°C	2.00	1	2	
20	WGSCC-CAP0092	CC0603KRX 7R9BB392	MLCC,0603, X7R, 3.9nF/50V,±10%, -55~+125°C	2.00	1	2	
21	WGSCC-CAP0111	CC0603JRN PO9BN330	MLCC,0603, NPO, 33pF/50V,±5%, -55~+125°C	2.00	1	2	
22	WGSCC-CAP0094	CC0603JRN PO9BN150	MLCC,0603, NPO, 15pF/50V,±5%, -55~+125°C	2.00	2	4	
23	WGSCC-CAP0116	CC0603KRX 7R7BB473	MLCC,0603, X7R, 47nF/16V,±10%, -55~+125°C	2.00	2	4	
24	WGSCC-CAP0121	CC0603KRX 7R9BB682	MLCC,0603, X7R, 6.8nF/50V,±10%, -55~+125°C	2.00	6	12	
25	WGSCC-CAP0157	CC0402KRX 7R9BB103	MLCC,0402, X7R, 10nF/50V,±10%, -55~+125°C	2.00	56	112	
26	WGSCC-CAP0165	CC0805KKX 5R6BB106	MLCC,0805, X7R, 10UF/10V,±10%, Halogen Free,-55°C~+125°C	2.00	26	52	
27	WGSCC-CAP0175	CC0603JRN PO9BN270	MLCC,0603, NPO, 27PF/50V,±5%, Halogen Free,-55°C~+125°C	2.00	4	8	
28	WGSCC-CAP0176	CC0603KRX 7R9BB222	MLCC,0603, X7R, 2.2nF/50V,±10%, -55~+125°C	2.00	5	10	
29	WGSCC-CAP0198	C3216X5R0 J226KT	MLCC,1206, X5R, 22UF/6.3V,±10%, -55°C~+85°C	2.00	38	76	
30	WGSCC-CAP0200	CC0402KRX 7R7BB104	MLCC,0402, X7R, 0.1UF/16V,±10%, Halogen Free,-55°C~+125°C	2.00	256	512	
31	WGSCC-CAP0203	C3225X5R1 C226KT	MLCC,1210, X5R, 22UF/16V,±10%, -55°C~+85°C	2.00	4	8	
32	WGSCC-CAP0232	CD286 16V/470μF	Aluminum electrolytic capacitor, 470uF/16V, ±20%, 10*13mm, RAD5.0, 5000 hours lifespan	2.00	9	18	
33	WGSCC-CAP0246	CD286 35V/470μF	Aluminum electrolytic capacitor, 470μF/35V, ±20%, 10*20mm, RAD5.0, 5000 hours	2.00	7	14	
34	WGSCC-CAP0140	CC0603JRN PO9BN220	MLCC,0603, NPO, 22pF/50V,±5%, Halogen Free,-55~+125°C	2.00	2	4	

35	WGSCC-CAP0271	CC1206KKX 7RDBB102	MLCC,1206, X7R,1000PF/2KV,±10%, Halo gen Free,-55°C~+125°C.	2.00	15	30	
36	WGSCC-DIO0001	LL4148	Switching diode, 100V, 1V, 300mA, SOD-80 package, -65~+175°C	3.20	4	12.8	
37	WGSCC-DIO0034	MBR20100 CT	Schottky diode, 100V, 20A, 150A, 0.85V, TO-220AB package, -55 to +150°C	3.20	1	3.2	
38	WGSCC-DIO0063	BAT54HT1 G	Zener diode, 30V, 200mA, 300mA, 0.24V, SOD323, -55°C to 150°C	3.20	1	3.2	
39	WGSCC-DIO0129	MBR1060C T	Schottky diode, 60V, 10A, 150A, 0.75V, TO-220AB package, -55 to 150°C	3.20	1	3.2	
40	WGSCC-IND0004	1206 magnetic beads	CBW321609U121	3.60	11	39.6	
41	WGSCC-IND0006	Inductance: 70 µH	70uH±10%, DCR:180mohm, D: 10mm	3.60	1	3.6	
42	WGSCC-IND0012	CMI201209 U1R0KT	0805, 1UH, ±10%, DCR:0.4ohm max, 0.1A, -40°C~+85°C	3.60	8	28.8	
43	WGSCC-IND0054	HCB1608KF -301T20	Ferrite bead, 300Ω at 100MHz, ±25%, DCRmax=0.100Ω, Imax=2A, -40~105°C	3.60	17	61.2	
44	WGSCC-IND0029	K5ARH3518 35	Ceramic beads, 3.5mm*3.5mm, with a 1.8mm center hole, operating temperature range: -40 to 85 degrees Celsius.	3.60	8	28.8	
45	WGSCC-IND0093	CMLW8040 S100MST	CHK-SM,10uH,±20%,29mΩ,3.3A,8*8*4.2	3.60	1	3.6	
46	WGSCC-IND0031	744333015 0	1.5uH/18A, ±20%, -40~125°C	3.60	2	7.2	
47	WGSCC-IND0070	DR127- 4R7-R	ChipL,Wire,4.7uH, ±20%, 9.17mΩ, 16.5A, 12*12*10mm, -40~125°C	3.60	1	3.6	
48	WGSCC-RES0174	RM06JTN3 30	SMD, 0603, 33 ohm, ±5%, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	3	18	
49	WGSCC-RES0177	RM06FTN4 9R9	SMD, 0603, 49.9 ohm, ±1%, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	6	36	
50	WGSCC-RES0190	RM06FTN1 241	SMD, 0603, 1.24 kΩ, ±1%, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	2	12	

51	WGSCC-RES0212	RM06FTN1000	SMD, 0603, 100 ohm, $\pm 1\%$, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	1	6	
52	WGSCC-RES0216	RM06JTN471	SMD, 0603, 470 ohm, $\pm 5\%$, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	1	6	
53	WGSCC-RES0219	RM06JTN331	SMD, 0603, 330 ohm, $\pm 5\%$, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	1	6	
54	WGSCC-RES0239	RM06JTN221	SMD, 0603, 220 ohm, $\pm 5\%$, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	3	18	
55	WGSCC-RES0246	RM06FTN2400	SMD, 0603, 240 ohm, $\pm 1\%$, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	2	12	
56	WGSCC-RES0256	RM06JTN203	SMD, 0603, 20 k Ω , $\pm 5\%$, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	1	6	
57	WGSCC-RES0258	RM06FTN2742	SMD, 0603, 27.4 k Ω , $\pm 1\%$, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	1	6	
58	WGSCC-RES0260	RM06JTN114	SMD, 0603, 110 k Ω , $\pm 5\%$, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	1	6	
59	WGSCC-RES0274	RM06FTN2R20	SMD, 0603, 2.2 ohm, $\pm 1\%$, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	2	12	
60	WGSCC-RES0277	RM06FTN7500	SMD, 0603, 750 ohm, $\pm 1\%$, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	3	18	
61	WGSCC-RES0279	RM06FTN1002	SMD, 0603, 10Kohm, $\pm 1\%$, 1/10W, -55°C~+125°C, Lead Free, Metal Film	6.00	2	12	
62	WGSCC-RES0281	RM06FTN8251	SMD, 0603, 8.25Kohm, $\pm 1\%$, 1/10W, -55°C~+125°C, Lead Free, Metal Film	6.00	1	6	
63	WGSCC-RES0297	RM06FTN6190	SMD,0603,619ohm, $\pm 1\%$,1/10W,-55°C~+125°C,Lead Free,metal film	6.00	1	6	
64	WGSCC-RES0321	RM06FTN2001	SMD, 0603, 2 k Ω , $\pm 1\%$, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	1	6	
65	WGSCC-RES0323	RM06FTN1101	SMD, 0603, 1.1 k Ω , $\pm 1\%$, 1/10W, -55°C to +125°C, Lead Free, Metal Film	6.00	1	6	

66	WGSCC-RES0339	RM06FTN1 962	SMD, 0603, 19.6 k Ω , $\pm 1\%$, 1/10W, -55 $^{\circ}$ C to +125 $^{\circ}$ C, Lead Free, Metal Film	6.00	2	12	
67	WGSCC-RES0360	RM06FTN2 491	SMD, 0603, 2.49 k Ω , $\pm 1\%$, 1/10W, -55 $^{\circ}$ C to +125 $^{\circ}$ C, Lead Free, Metal Film	6.00	3	18	
68	WGSCC-RES0386	751KD14	VR,615Vdc,750V@1mA,1240V,4500A, RAD:7.5mm	6.00	1	6	
69	WGSCC-RES0391	RM06FTN6 191	SMD, 0603, 6.19 k Ω , $\pm 1\%$, 1/10W, -55 $^{\circ}$ C to +125 $^{\circ}$ C, Lead Free, Metal Film	6.00	4	24	
70	WGSCC-RES0429	RM04JTN1 03	SMD, 0402, 10Kohm, $\pm 5\%$, 1/16W, -55 $^{\circ}$ C to +125 $^{\circ}$ C, Lead Free, Metal Film	6.00	2	12	
71	WGSCC-RES0432	RM04JTN2 20	SMD, 0402, 22 ohm, $\pm 5\%$, 1/16W, -55 $^{\circ}$ C~+125 $^{\circ}$ C, Lead Free, Metal Film	6.00	18	108	
72	WGSCC-RES0440	RM04JTN4 72	SMD, 0402, 4.7Kohm, $\pm 5\%$, 1/16W, -55 $^{\circ}$ C~+125 $^{\circ}$ C, Lead Free, Metal Film	6.00	155	930	
73	WGSCC-RES0460	RM04FTN1 001	SMD, 0402, 1Kohm, $\pm 1\%$, 1/16W, -55 $^{\circ}$ C to +125 $^{\circ}$ C, Lead Free, Metal Film	6.00	21	126	
74	WGSCC-RES0488	RM04FTN4 9R9	SMD, 0402, 49.9 ohm, $\pm 1\%$, 1/16W, -55 $^{\circ}$ C to +125 $^{\circ}$ C, Lead-Free, Metal Film	6.00	4	24	
75	WGSCC-RES0491	RM04JTN0	SMD, 0402, 0 ohm, $\pm 5\%$, 1/16W, -55 $^{\circ}$ C to +125 $^{\circ}$ C, Lead Free, Metal Film	6.00	8	48	
76	WGSCC-RES0493	RM04FTN3 3R0	SMD, 0402, 33 ohm, $\pm 1\%$, 1/16W, -55 $^{\circ}$ C to +125 $^{\circ}$ C, Lead Free, Metal Film	6.00	4	24	
77	WGSCC-RES0494	RM06FTN2 490	SMD, 0603, 249 ohm, $\pm 1\%$, 1/10W, -55 $^{\circ}$ C to +125 $^{\circ}$ C, Lead Free, Metal Film	6.00	3	18	
78	WGSCC-RES0530	RM04FTN6 041	SMD, 0402, 6.04 k Ω , $\pm 1\%$, 1/10W, -55 $^{\circ}$ C to +125 $^{\circ}$ C, Lead Free, Metal Film	6.00	4	24	
79	WGSCC-RES0500	RM04JTN1 51	SMD, 0402, 150 ohm, $\pm 5\%$, 1/16W, -55 $^{\circ}$ C to +125 $^{\circ}$ C, Lead Free, Metal Film	6.00	2	12	
80	WGSCC-TRA0110	MP-2307DN-LF-Z	Power conversion chip, 3A, Vin = 4.75V to 23V, Vout = 0.925V to 20V, 340kHz, SOIC8N, -40 $^{\circ}$ C to 85 $^{\circ}$ C.	4.12	1	4.12	

81	WGSCC-TRA0160	UTG72T13	10/100/1000 Base-T 72-pin direct plug-in, without built-in resistors or capacitors.	4.12	6	24.7 2	
82	WGSCC-XAL0042	ESA25.000 OF20E33LF	Crystal, 25.000000MHz, ± 30 ppm, CL=20PF, 2 Pin, 4.5*10.8mm, Pitch:4.88mm, -20°C~70°C	4.12	2	8.24	
83	WGSCC-XAL0143	WX7021A0 156.253906	Oscillator, 156.253906MHz, ± 20 ppm, 3.3V, RL=50ohm, 6 Pin, 5*7mm, -20°C~70°C, Lead Free, SMD	4.12	1	4.12	
84	WGSCC-XAL0093	XSA14M31 A20D33L	Crystal, 14.318180 MHz, ± 30 ppm, CL=20PF, 2 Pin, 4.68*11.1mm, Pitch:4.88mm, 0°C~70°C, DIP	4.12	1	4.12	
85	WGSOC-CNN0025	2*40P straight pin header - 2.54mm	40 pins/row, pin spacing 2.54mm	6.00	0.5	3	
86	WGSOC-CNN0345	ZW2908- 157C12D	RJ45 2*4 8-port socket, 1.5U	6.00	3	18	
87	WGSOC-CNN0114	2510-2A	2-pin CPU fan connector	6.00	2	12	
88	WGSOC-CNN0526	10710511D 001	SFP+ 1X1 CONNECTOR, 15U LCP black (environmentally friendly material), -40~+85°C	6.00	4	24	
89	WGSOC-CNN0527	K869-00- Y001	SFP 1*1 CAGE (crimp pins) white copper alloy CZT -55~105 degrees Celsius DIP	6.00	4	24	
90	WGSOC-CNN0313	VH3.96-4A	4-pin power connector with 3.96mm pin spacing.	6.00	2	12	
91	WGSOC-CNN0530	B869S- 0015-Y002	SFP 2*1 without light pipe, 15U (with CAT, LCP black)	6.00	2	12	
92	PCB		4 layers, 1.6mm, 305*165mm	112. 00	1	112	
						0	
			Total (Number of FiT units)		$\sum \lambda_i =$	3100	
			MTBF (Hours)			322599.3767	

MTTR	
Field	Description
Report Title	MTTR (Mean Time to Repair) Report
Product Model	TR-S2528D-2AC
Definition	MTTR = Total Repair Time / Number of Repair Events
Estimated MTTR	≤ 2 hours
Conclusion	Designed for quick repair and minimal downtime

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