



SUMMARY OF ACTIVE DEVICES

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Global Telecom Solutions Sector

APPLICANT: MOTOROLA

FCC ID: IHET6EK1

SUMMARY OF ACTIVE DEVICES

Section A

CMPC – Compact Multicoupler Preselector Card

1.9 GHz Compact Multicoupler/Preselector Card (CMPC)

<u>Device Type</u>	<u>Component Description</u>	<u>Operating Frequencies</u>
MMPT3906LT1	Transistor PNP 40V 2A	D.C.
MMBT3904LT1	Transistor NPN 40V 2A	D.C.
MC33161D-5R2	IC Undervolt Sensing Ckt, Mot	D.C.
MMSZ6685T	Zener Diode 3.9V 500mV , Mot	D.C.
MMBD6050LT1	Diode 70V 50A, Mot	D.C.
PALCE22VIOH-15JC/4	IC Programmable Logic Device	D.C.
BRPG1204W-TR Bicolor	LED 70mA 2.5V	D.C.
BCW69	Transistor PNP	D.C.
MMBZV6ALT1	Dual Diode Common Anode 5.6V	D.C.
MC33060ADR2	PWM Control Circuit	D.C.
MTD2955ET4	Power MOSFET Pch 60V, 12A	D.C.
MC33182DR2	Low Pwr Dual Op-Amp	D.C.
P6SMB12CAT3 12V	Transient Suppressor	D.C.
MMBD7000	Zener Diode	D.C.
RELAY_G6S_2G_DC12	DPDT 12V Relay	D.C.
MBRS140T3	Schottky Rectifier 40V 1A	D.C.
LT1054IS	IC Voltage Converter with Reg	D.C.
LM317	Adj. Voltage Regulator 500mA	D.C.
X9241	IC CMOS Quad EEPOT	D.C.
MC3303DR2	IC Gen Purpose Quad Op-Amp	D.C.
X2502D	IC EPROM 256x8	D.C.
MC79L05ACDR2	5V Neg Regulator 100mA	D.C.
MMDF2P02HDR2	P-Ch DI Hi-Densd. Mosfet 20V 2A	D.C.
MMBZ5235BLT1	6.8V 20mA Zener Diode	D.C.
ATF54143	PHEMT Low Noise Transistor	800-2000MHz
AH1-1	IC, High Freq, Linear Amp	800-2000MHz
BC856BW	PNP AF Transistor	D.C.
MAALSS0017	GaAs RF Gain Stage	800-2000MHz
OP282GS	IC Dual Op Amp	D.C.
CLY5-E6612	GaAs Mesfet	800-2000MHz



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Section B

GLI3 – Group Line Interface Card

Group Line Interface III (GLI3) Active Device List

Device Type	Component Description	Operating Frequency
DCS0502S-1	-9V Power Converter Module	100KHz
108612961	5V-3.3V,6A Power Module, VREG_00H05	1MHz
108612953	5V-2.5V,6A Power Module, VREG_00H06	1MHz
MC044X5-202	32.768MHz VCXO	32.768MHz
MMBD6050	Small Signal Switch Diode 70V	20MHz
CB3LV_3I_50	50MHz Clock Oscillator	50MHz
CB3LV_3I_25	25MHz Clock Oscillator	25MHz
CB3LV_2I_66	66MHz Clock Oscillator	66MHz
CB3LV_3I_20	20MHz Clock Oscillator	20MHz
DAC8562FS	12-bit DAC	100Hz
MPC8260A	PowerQUICCII 8260	66MHz (233MHz/166MHz Internal)
MSC8101	StarCore DPS	50MHz (250MHz/125MHz internal)
MC74ACT244	Octal Buffer/Line Driver with 3 State Outputs	DC - 66MHz
MC10ELT21	5V Differential PECL To TTL Translator	3MHz
MPC9446FA	2.5V and 3.3V LVCMOS Clock Fanout Buffer	66MHz
MC74LCX04	Low-Voltage CMOS Hex Inverter	DC - 20MHz
74LCX16244	Low-Voltage 16-Bit Buffer	DC - 66MHz
74LCX16245	Low-Voltage CMOS 16-Bit Transceiver	4MHz - 66MHz
DS1706	Watchdog/reset	2 MHz
PEB22554HT-V13	Quad Framer/LIU	16MHz
DP8392C	Coax Xcvr Interface	20MHz
MAX250	Isolated RS-232 Drivers/Receivers	9.6kHz -115kHz
MAX251	Isolated RS-232 Drivers/Receivers	9.6kHz -115kHz
SN74CBTD3384DBR	10-bit FET Bus Switch	DC - 32.768MHz
RC28F128J3A-150SL56M	Flash-Bulk 16MB	66MHz
DP83910AV	Serial Network Interface	20MHz
XCV1000E_CNTRL	1M Gate Xilinx FPGA	32.768MHz and 66MHz
MAX3232ESE	RS-232 Transceiver	115kHz
MAX4624	Analog Switch	1.5MHz - 2MHz
ADG774A	Analog Mux	62MHz
MT48LC16M16A2TG-7E	SDRAM 32MB	66MHz
MT48LC8M16A2TG-7E	SDRAM 16MB	66MHz
MT48LC2M32B2TG-7IT	SDRAM 8MB	50MHz
CY7B991V-5JI	Robo Clock	16MHz
HCPL0661	Optocoupler	9.6kHz -115kHz
W194-70	Zero Delay Buffer	16MHz
BCM5327M KQM	9-Port Ethernet Switch	25MHz
MT90823ABX90	3V TDM Switch	8MHz
BCM5222 KPF	PHY Transceiver	25MHz
EPM7256BF1256-7	High Performance CPLD	66MHz
SN65LBC170DB	Triple Differential Xcvr	4.8kHz - 4MHz



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Section C

BBX-1X – Broadband Transceiver Card

BBX - Broadband Transceiver Card

<u>Device Type</u>	<u>Component Description</u>	<u>Operating Frequency</u>
13520-509	ASIC - FLDP	39.3216 MHz
MC100ELT21D	Differential PECL to TTL Translator	3 MHz & 19.6608 MHz
62007	ASIC CLOCK ARBITER	19.6608 MHz
74ACT16244	Buffer/ Driver	D.C.
AD603AR	opamp	0 - 1.2289 MHz
		19.6608 MHz & 39.3216 MHz
AD6600	Analog to Digital Converter	MHz
AD680	2.5 V Bandgap Reference	D.C.
AD826AR	opamp	D.C.
AD8402AR1	EEPOT	625.0 KHz - 5.0 MHz
AD9765AST	12 Bit Dual Transmitt DAC	10.0 MHz
DAC2902Y/2K	12 Bit Dual Transmitt DAC	10.0 MHz
ADF4118BRU	oscillator	3.0 GHz
AS4LC1M16E5-60TI	DRAM	10.00 MHz
IS41LV16100-60TI	DRAM	10.00 MHz
MT4LC1M16E5TG	DRAM	10.00 MHz
AT65-0413	Attenuator Digital	238.4 MHz
BFP420	NPN transistor	238.4 MHz
BRPG1204W	Red/Green LED	0-2 Hz
CLY2	GaAs FET	1.9 GHz
CV211-1	Dual Ch RCVR IC	1850-1910MHz
CY7B991-5JI	Prg. Skew Clk Buffer	19.6608 MHz
DS14C232CMX	RS232 XCVR	9600 Hz
DS1819AR-20	Reset/Watchdog Timer	2 Hz
HSM633	20 MHz Crystal Oscillator	20 MHz
HSMS-2825-L31	RF Schottky Barrier Diodes	6 MHz
HSMS282k	RF Schottky Barrier Diodes	625 kHz & 1.9 GHz
IDT74FCT162500ATPV	Buffer/Driver	19.6608 MHz
LM2903DR2	Dual Comparators	D.C.
LM2991S	Voltage Regulator	D.C.
LTC1421IG	Hot Swap Controller	D.C.
LVCO-3996U	oscillator	1930 - 1980MHz
LVCO-3997U	oscillator	1611 - 1672MHz
MA4P274-1068	Dual PIN Diodes	1.9 GHz
MAVCVS0030	oscillator	1930 - 1980MHz
MAVCVS0031	oscillator	1611 - 1672MHz
max148beap	Analog to Digital Converter	694.4 kHz
MAX6610	Temperature Sensor/V-ref	D.C.
MBR0530T1	Schottky Power Rectifier Diode	D.C.
MBRD340T4	diode	D.C.
MBT3904DW1T1	NPN transistor	D.C.
MBT3906DW1T1	PNP transistor	D.C.
MBT3946DW1T1	dual PNP/NPN transistor	D.C.

BBX - Broadband Transceiver Card

<u>Device Type</u>	<u>Component Description</u>	<u>Operating Frequency</u>
MC100EL58DR2	2:1 Multiplexer	19.6608 MHz
MC100ELT23DR2	PDECL to TTL Translator	19.6608 MHz
MC10EL11DR2	5V ECL 1:2 Differential Fanout Driver	19.6608 MHz
MC10H641	PDECL-TTL 1:9 Clk Drvr	19.6608 MHz
MC33063ADR2	DC to DC Converter	45 kHz
MC33078DR2	Opamp	D.C.
MC33161D	Univ Voltage Ref	D.C.
MC68360ZP25VL	QUICC Processor	20 MHz
		0.5 Hz, 2 Hz, 3 MHz, 19.6608 MHz, & 39.3216 MHz
MC74ACT125DR2	Quad Tri-state Buffer	MHz
MC74HC4066DR2	Analog Mux	3 MHz
MC74LCX08DTR2	Quad 2-Input AND	20 MHz
MC74LCX125DTR2	Quad Tri-state Buffer	17 Hz & 625 kHz
		100 Hz, 9.6 kHz, 625 kHz, 1MHz, 4.096 MHz
MC74LCX244DTR2	Dual Tri-state Buffer	20 MHz
MC74LCX32DTR2	Quad 2-Input OR	39.3216 MHz
MC74LCX374DTR2	Octal D-type Flip-Flop	19.6608 MHz
MC74LCX574DTR2	Octal D-type Flip-Flop	625 kHz
MC74VHCT244A	Dual Tri-state Buffer	D.C.
MMBD301LT1	Diode	D.C.
MMBD6100LT1	Diode	D.C.
MMBD7000LT	1 Dual Switching Diode	D.C. & D.C.
MMBD914LT1	High-Speed Swithing Diode	D.C.
MMBT3904LT1	NPN transistor	D.C.
MMBT3904WT1	NPN transistor	19.6608 MHz
MMBT3906LT1	PNP transistor	D.C.
MMBZ5240BLT1	zener diode	D.C.
MMDF2P02HDR2	P-channel mos FET	D.C.
MMSZ5225BT1	zener diode	D.C.
MMSZ5232BT1	zener diode	D.C.
MMSZ5237BT1	zener diode	D.C.
MMSZ5243BT1	zener diode	D.C.
		0.5 Hz, 625 kHz, 19.6608 MHz, & 39.3216 MHz
MSM13R2850	DBP ASIC	D.C.
MTB75N05HDT4	NPN transistor	19.6608 MHz
MC10EL16DR2	PDECL Receiver	D.C.
OPA2227	opamp	D.C.
RC28F320C3BC90	Flash Memory	20 MHz
RF2361	RF Amp	869-1990MHz
RF2484	Direct Quad. Modulator	800 - 2500 MHz
RF5187	High Power Linear Amp	1800 - 2500 MHz
SG615HC	oscillator	50MHz
SI9430DY	P_channel Mos FET	D.C.
TLC5620ID	DAC Quad 8-Bit	625.0 KHz - 5.0 MHz
TPS54673PWPR	Voltage Regulator	D.C.
TPS71H01Q	Voltage Regulator	D.C.
		.5 Hz, 10 MHz, 20 MHz, 19.6608 MHz, 39.3216 MHz
XCS40XL-4BG256I	Xilinx FPGA	MHz



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Section D

MCC-1X – Multi Channel CDMA Card

MCC 1X - Multi Channel CDMA Card

<u>Device Type</u>	<u>Component Description</u>	<u>Operating Frequencies</u>
108612961	5V to 3.3V Switching Regulator	~1MHz
108612953	5V to 2.5V Switching Regulator	~1MHz
MMBT3904LT1	NPN Trans 40V .2A	DC
SG8002JA-66.0MPCBL3	XTAL OSC	66 MHz
SG8002JC-50.0MPCBL2	XTAL OSC	50 MHz
SM1145CV-25.0MHz	Non-PLL XTAL OSC	25 MHz
SN74LVT125DBR	3.3V ABT Quad Buffers, 3ST Outputs	DC
MC74LCX240DTR2	Low-Voltage CMOS Octal Buffer	25 MHz
MPC8260ZU200AR2	PowerQUICC II™ Integrated Comm. Processor	200 MHz
MC74HC32AD	OR Quad 2 Input	DC
MC74ACT14D	Hex Schmitt Trig	DC
MC74ACT541	Oct 3ST Line DRVR/CVR	DC
MC74ACT574DW	Oct D Flip/Flop	DC
MC10H641FN	PDECL-TTL 1:9 Clock Driver	19.6608 MHz
MC10EL16D	PDECL Receiver	19.6608 MHz
MC10EL58D	PDECL 2:1 Mux	19.6608 MHz
MC100ELT23	PDECL to TTL Translator	19.6608 MHz
MPC946FAR2	Low Voltage 1:10 CMOS Clock Driver	66MHz, 50MHz
LM317D	Positive Voltage Regulator	DC
MC74LCX00DTR2	Low-Voltage CMOS Quad 2-Input NAND Gate	DC
MC74LCX02DTR2	Low-Voltage CMOS Quad 2-Input NOR Gate	DC

MCC 1X - Multi Channel CDMA Card

(CONTINUED)

<u>Device Type</u>	<u>Component Description</u>	<u>Operating Frequencies</u>
MC74LCX74DTR2	Low-Voltage CMOS Dual D-Type Flip-Flop	DC
MC74LCX244DTR2	Low Voltage CMOS Octal Buffer	DC
MC74LCX16244DT	Low-Voltage 16-Bit Buffer	33 MHz, 25 MHz, 4 MHz, 16MHz
DS1706TESA	Reset Controller	DC
EPM7256AEFC256-7	256 Logic Cell CPLD	66 MHz
74ABT125D	Quad Buffer, 3ST Outputs	DC
SN74CBTD3384DBR	10-Bit FET Bus Switches, Level Shifting	19.6608 MHz, 39.3216 MHz
CSM5000	Cell Site Modem ASIC	50MHz
MT48LC8M16A2TG-75	SDRAM Memory 2M x 16	66MHz, 50 MHz
EPM7064BTC44-3	64 Logic Cell CPLD	39.3216 MHz
MAX6301CSA	Low-Power uP Supervisory Circuit	DC
XC2S100-5FG256C	100K Gate FPGA	66 MHz, 19.6608 MHz, 39.3216 MHz
XC2S200-5FG256C	200K Gate FPGA	66 MHz, 4 MHz, 8 MHz, 16MHz
E28F128J3A-150	16 Mbyte FLASH Memory	~8 MHz, ~6 MHz
MAX3233ECWP	3.3V Dual RS232 Transceiver	19.2 kHz
AL100A-A4	8 Port 10/100 Ethernet Switch	66 MHz, 25 MHz
CY7B991V-2JC	Programmable Skew Clock Buffer	4 MHz, 8 MHz, 16 MHz
X24C04S8-2.7	Serial 256x8 2-wire EEPROM	DC

MCC 1X - Multi Channel CDMA Card

(CONTINUED)

<u>Device Type</u>	<u>Component Description</u>	<u>Operating Frequencies</u>
X25020S-2.7	Serial 256x8 EEPROM	DC
M4A3-128/64-55VC	128 Macrocell CPLD	50 MHz
74LCXR162245MTDX	16 Bit Bi-directional Transceiver	33 MHz
LXT971ALC	Ethernet Transceiver, Dual Speed	25 MHz
GAL26CV12C-7LJ	PAL	19.6608 MHz



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SUMMARY OF ACTIVE DEVICES

Section E

MCC-DO – Multi Channel CDMA Card

Multi-Channel CDMA Data Only (MCC-DO) Active Device List

Device Type	Component Description	Operating Frequency
AT27BV4096-12JI	EPROM 512kB	65.3MHz
AT93C56-10SI-2.7	SERIAL EEPROM 256kB	390kHz
EDS2516APTA-75TI	SDRAM 256MB	65.3MHz
UPD45128163G5-A75LI-9JF	SDRAM 128MB	65.3MHz
CY7C1351B-100AI	ZBT SSRAM 128kB	60MHz
TC58FVM7T2ATG65CAH	16MB FLASH MEMORY	65.3MHz
CY7B991V-5JI	Robo Clock	4.096MHz(4.096MHzMHz,16MHz Output)
CY7B991V-5JI	Robo Clock	19.6608MHz(19.6608MHz,39.3216MHz Output)
MPC9447FA	CLOCK FANOUT BUFFER	1.544MHz - 65.3MHz
MPC8260ACZUMHBB	PowerQUICCII 8260	65.3MHz (130.6MHz/195.9MHz Internal)
MPC8250ACZUMHBB	PowerQUICCII 8260	65.3MHz (130.6MHz/195.9MHz Internal)
M4A3-32/32-7VI	High Performance CPLD	19.6608MHz - 25MHz
EPM7128AETI100-7	High Performance CPLD	25MHz - 65.3MHz
XC2V1000-4BG575I	1M Gate Xilinx FPGA	4.096MHz - 65.3MHz
XC18V04PC44I	512kB Configuration PROM	20MHz
PM4354-PI	COMET-QUAD	1.544MHz - 2.048MHz
BCM5325MA2IQM	5-Port Ethernet Switch	2MHz - 25MHz
TMS320C6414DGLZA5E0	DSP	41.66MHz(499.92MHz Internal)
HDL4M1NESD301	MODEM LSI	39.3216MHz - 60MHz(60MHz,78.6432MHz Internal)
LM83CIMQA	Temperature Sensor	31.9kHz
LXT971ALE	Fast Ethernet PHY Transceiver	25MHz
MAX3232IDW	RS-232 Transceiver	9.6kHz -115kHz
MC100EPT21DT	3.3V Differential LVPECL to LVTTTL Translator	19.6608MHz
MC100EPT23D	3.3V Dual Differential LVPECL to LVTTTL Translator	19.6608MHz
MC10EP16D	3.3V / 5V ECL Differential Receiver/Driver	19.6608MHz
MC10EP58D	3.3V / 5V ECL 2:1 Multiplexer	19.6608MHz
DS26LV31TM	3V Enhanced CMOS Quad Differential Line Driver	DC - 1MHz
DS26LV32ATM	3V Enhanced CMOS Quad Differential Line Receiver	DC - 1MHz

Device Type	Component Description	Operating Frequency
MC74LCX16244DT	Low-Voltage CMOS 16-Bit Buffer	DC-4.096MHzMHz - 16.384MHz
MC74LCX16374DT	Low-Voltage CMOS 16-Bit D-Type Flip -Flop	19.6608MHz
MC74LCX244DT	Low-Voltage CMOS 8-Bit Buffer	DC-4.096MHzMHz - 16.384MHz
SN74ABT125NS	BUS BUFFER GATE	DC - 19.6608MHz
SN74LV244APW	Low-Voltage 8-Bit Buffer	DC - 65.3MHz
HD74LVC00T	Low-Voltage CMOS POSITIVE-NAND GATE	DC - 65.3MHz
SN74LVC04DB	Low-Voltage CMOS Hex Inverter	4.096MHz
SN74LVC240APW	Low-Voltage CMOS 8-Bit Buffer	25MHz
SN74LVTH240PW	Low-Voltage 8-Bit Buffer	DC - 60MHz
SN74LVTH244APW	Low-Voltage 8-Bit Buffer	DC - 65.3MHz
SN74LVTH574PWR	Low-Voltage 8-Bit D-Type Flip -Flop	39.3216MHz
SN74LVTH16244ADL	Low-Voltage 16-Bit Buffer	DC - 65.3MHz
SN74LVTH16245ADL	Low-Voltage 16-Bit Transceiver	DC - 65.3MHz
MIN30F-T(65.3000MHZ)	65.3MHz Clock Oscillator	65.3MHz
MIN35F-T(25.000MHZ)	25MHz Clock Oscillator	25MHz
TCO-7089X1A4(1.5440MHZ)	1.544MHz Clock Oscillator	1.544MHz
TCO-7089X1A4(2.0480MHZ)	2.048MHz Clock Oscillator	2.048MHz
TCO-7087X1A4(4.0960MHZ)	4.096MHz Clock Oscillator	4.096MHz
TCO-7087X1A4(41.6600MHZ)	41.66MHz Clock Oscillator	41.66MHz
TCO-7087X1A4(60.0000MHZ)	60MHz Clock Oscillator	60MHz
CE-1005	+1.25V Power Converter Module	550KHz
HT343	+1.5V Power Converter Module	550KHz
HT344	+3.3V Power Converter Module	550KHz
LTC1772CS6	Step-Down DC/DC Controller	550KHz



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SUMMARY OF ACTIVE DEVICES

Section F

CSA – Clock Synchronization Assembly Card

Clock Synchronization Assembly Card (CSA)

Device Type; Manufacturer Part Number	Component Description	Operating Frequency
NC7SZ125P5X	Buffer 3-state	16 MHz, 0.5 Hz, DC,
AD9850	Frequency Synthesizer	19.6608 MHz, 3 MHz
DS1705	Voltage monitor	DC
MC68EN302PV	Microprocessor	16 MHz
MC14538	Dual One-Shot	DC, 10 KHz
MC74ACT04	Hex Inverter	DC, 16 MHz
MC74ACT08	Quad AND	DC, 4.8 KHz, 10 KHz, 8 MHz, 19.6608 MHz
MC74ACT14	Hex Inverter, Schmitt Trigger	DC, 10 Hz, 25 KHz
MC74ACT74	Dual D-Flip-Flop	DC
MC74ACT05	Hex Inverter, Open collector	DC,
MC10E111	5 v ECL, 1:9 differential driver	19.6608 MHz
MC100ELT21	5 V differential PECL to TTL translator	3 MHz, 10 MHz, 19.6608 MHz
MC78L05A	5 V Voltage Regulator	DC
MC78M12BD	12 V Voltage Regulator	DC
MC78M15BD	15 V Voltage Regulator	DC
MC79M15	15 V Voltage Regulator	DC
MC74LCX16245	16-bit Tranceiver	DC, 0.5 Hz, 4.8 KHz, 8 MHz
MC74LCX16374	16-Bit D-Flip-Flop	DC, 8 MHz
HCPL0721	Optical Isolator	DC, 4.8 KHz
LT1054ISW	Voltage Converter, Pulse width Modulator	25 KHz
AD817	Op Amp	3 MHz
AD7846	Digital to Analog Converter	DC, 1 Hz
MC1413	High Current Darlington Transistor Array	DC

X25020	Serial Flash	DC, 4.8 KHz
LT1081IS	RS-232 transceiver	DC, 4.8 KHz
SC28L92	Dual Universal Asynchronous Receiver Transmitter	DC, 4.8 KHz, 28.7 KHz, 16 MHz
CY7C1041CV	Static Random Access Memory	DC, 8 MHz
MC33025	High speed Pulse width Modulator Controller	DC, 25 KHz
XC2S50-5	Xilinx FPGA (Field Programmable Gate Array)	DC, 8 MHz, 19.6608 MHz
RC28F160C3B	FLASH Memory	DC, 8 MHz
MAX6250	5 V Voltage reference	DC
MAX4370	Power Soft Start Controller	DC
LP3965	Adjustable voltage regulator	DC
65LBC170	RS-485 differential line transceiver	DC, 0.5 Hz, 1 Hz, 4.8 KHz, 27.8 KHz
MAX5903	Power Soft Start Controller	DC
MJD243	Transistor NPN	DC
MMBT3904L	Transistor NPN	DC, 1 Hz, 10 Hz
MMBT3906L	Transistor PNP	19.6609 MHz



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Section G

cPA – Compact Power Amplifier

**Linear Power Amplifier
(CLPA)**

Device Type	Component Description	Operating Frequencies
MA4P274	DIODE PIN	<1GHz
MA-505	QUARTZ XTAL SURFACE MT 16 MHZ	16MHz
LM4040	DIODE 5.0V PRECISION SOT23	DC
MJD31TD	TSTR N-CH 60V 20A	DC
2N7002LT1	TSTR NPN 40V 3A MJD31T4	DC
MMBT3904T	TSTR NPN 40V .2A GEN PURP	DC
MBT3906DW1T1	TSTR DUAL PNP 40V .2A	DC
MMBT3904WT1	TSTR NPN 40V	DC
MMBD701L	DIODE 70V HOT CARRIER MMBD701L	<1GHz
PWIC7084GR1	DIODE DL 5.6V COM ANODE	DC
PHVIC7085R2	DIODE 6.8V E5 MMSZ5235BT1	DC
MMBZ5V6A	12V TRANS SUP 1.5SMC12AT3	<1GHz
MMSZ5235BT1	33V TRANS SUP 1.5SMC33AT3	<1GHz
SUPP6SMB18AT3	ZENER BPLR 15V FOR ESD SOT23	DC
SMC33AT3	DIODE SCHOTTKY 3A 60V LTB 23/6/99	DC
MMBZ15	DIODE DUAL 70V A7X BAV99LT1	DC
MBRD360	DIODE DUAL 75V A2X MMBD2836LT1	DC
BAV99LT1	DIODE DUAL 100V 5C COMM ANO	DC
MMBD2836LT1	DIODE SLCN 34N02 VCTR A/P	<1GHz
MMBD7000LT1	DIODE DUAL PIN	<1GHz
MMBV105G	IC LM337L	DC
FQD24N08TF	IC LOG AMP DET/CONT AD8313	<1GHz
SMP1307	IC OP AMP OP177	<1GHz
LM337L	IC TEMP SNSR LM60BIM3X SOT23	DC
AD8313	IC OP AMP LMC7101 SOT23	<1GHz
OP177	IC 58HC12, 112 QFP, T&R	16MHz
LM60CIM3X	IC QUAD 2INP NAND 74HC00AD	16MHz
LMC7101	IC QUAD 2INP NOR 74HC02AD	16MHz
68HC12	IC DUAL D FF W/SET RST 74HC74	16MHz
74HC00AD	IC QUAD ANALOG MUX/DEMUX	16MHz
74HC02AD	IC MC14066BDR2	16MHz
74HC74	IC HIGH PERF CURRENT MODE CNTR	16MHz
MC74HC4066	IC ADJ. LOW DROPOUT POS,100MA	DC
UC2842A	REG 15V POS 100MA MC78L15ABDR2	DC
LM2931	REG 5V POS 500MA MC78M05BDTRK	DC
MC78M05BDTRK	IC QD OP AMP GEN PURP MC3303D	<1GHz
MC7808	IC LINEAR LM2940S 8V	DC
AD5317	IC RS-232 TRANCEIVER	16MHz
MC145407	IC RESET DC 5V	DC
CD14538BPWR	IC DAC 12CH AD8802 ARU	16MHz
AD8802	IC RS485 XCVR MAX1482ESD	16MHz
MAX1482ESD	IC AD5317 QUAD 10BIT SPI	16MHz
MGA53543	Amplifier, High Linearity	<2GHz
MHVIC2115R2	15W Power Amplifier	<2GHz
MW5IC2030GMBR1	30W Power Amplifier	<2GHz
RFMD2361	LowNoise PA Driver	<2GHz



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SUMMARY OF ACTIVE DEVICES

Section H

CBIO- Combiner Input/Output Card

Combiner Input/Output Card (CBIO)

Device Type	Component Description	Operating Frequency
HCPL0661 5188298C01	Optocoupler	NA
MAX253 5188285C01	Oscillator/power driver	250kHz-550kHz
UC2914 5186133W02	Hot Swap Controller	250kHz
MC74ACT541 5113808A53	OCTAL BUFFER/LINE DRIVER WITH 3-STATE OUTPUTS	1Hz-10kHz
AT25020N 5187921C02	SPI Serial EEPROM	1MHz
65LBC170 5188640C01	Triple RS485 transceiver	1Hz-10kHz
SN75175DR 5113815U12	Quadruple RS485 transceiver	1Hz-10kHz



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SUMMARY OF ACTIVE DEVICES

Section I

RF GPS Distribution

RF GPS Distribution

Device Type	Component Description	Operating Frequency
MC74HC16	Counter	1 Hz
LP2985	VOLTAGE REG	DC
LP2989	VOLTAGE REG	DC
LM2672	DC/DC CONVERTER	DC
SN65HVD10	TTL/RS485 XCVR	DC