

American TeleCare, Inc.
Model: Wireless Adapter 210

Bluetooth Module Bill of Materials

Quantity	Ref Des	Description	Manufacturer	Mfr. Part #	Package	Active Icc (mA)	Standby Icc (uA)	Unit Cost	Cost
1	U1	Single Chip Bluetooth System	CSR	BC212015BDN	BGA96 (.65mm)	15	47	10.00	10.00
1	U2	8 Mbit Flash Memory	SST	SST39VF800-90-4C-B3K	BGA48 (.8mm)			2.35	2.35
1	U3	Bluetooth Chip Antenna	Centurion	CAF95901	2-Pin				0.00
1	U4	2.4GHz Bandpass Filter	Soshin	MDR741F	4-Pin				0.00
1	T1	Bluetooth Balun	TDK	HHM1517	2012			0.50	0.50
4	L1,L2,L3,L5	3.9nH Inductor	Murata	LQP15MN3N9B00	0402			0.10	0.40
1	X1	16MHz Crystal	Toyocom	TSX-10A@16MHZ	4x2.5mm			5.00	5.00
1	U7	PIC Microcontroller	Microchip	PIC12C509A-04/SN	SOIC8	1	1	1.00	1.00
1	U6	RS-232 Receiver	Maxim	MAX3181EEUK-T	SOT23-5		1	0.69	0.69
1	U5	Single Gate Logic Buffer	Fairchild	NC7SZ125P5X	SC70-5		6	0.20	0.20
2	U8,U9	Voltage Regulator	Linear Tech	LT1615ES5-1	SOT23-5	10	40	1.65	3.30
1	U10	Single Gate Inverter	Fairchild	NC7SP14P5X	SC70-5			0.75	0.75
1	L4	4.7uH Boost Inductor	Murata	LQH32CN4R7M11B	L1210			0.10	0.10
2	D1,D3	Schottky Diode	On	MBR0520LT1	SOD-123			0.12	0.24
1	D2	Transient Voltage Suppressor	Littlefuse	V5.5MLA0603H	0603			0.50	0.50
1	L6	22 uH Boost Inductor	Murata	LQH32CN220K21	L1210			0.10	0.10
2	C1,C4	10uF Cap			C0805			0.05	0.10
2	C2,C6	4.7uF Cap			C0805			0.05	0.10
1	C19	100nF Cap			C0603			0.05	0.05
2	C13,C14	10nF Cap			C0402			0.05	0.10
1	C17	220pF Cap			C0402			0.05	0.05
3	C10,C11,C20	47pF Cap			C0402			0.05	0.15
1	C12	15pF Cap			C0402			0.05	0.05
1	C15	10pF Cap			C0402			0.05	0.05
2	C3,C5	4.7pF Cap			C0402			0.05	0.10
1	C16	3.3pF Cap			C0402			0.05	0.05
2	C8,C9	1.8pF Cap			C0402			0.05	0.10
1	R2	2.15M Res			0603			0.01	0.01
2	R1,R8	1M Res			0402			0.01	0.02
1	R7	604K Res			0402			0.01	0.01
1	R5	182K Res			0402			0.01	0.01
1	R4	1K Res			0402			0.01	0.01

American TeleCare, Inc.
Model: Wireless Adapter 210

1	R3	2.2 Ohm Res			0402			0.01	0.01
1	P3	Development Connector	Molex	53398-0690	6-Pin			1.00	1.00
TOTALS						26	95		26.10