

Preliminary BOM Estimates - Top Cost Driver Report

Preliminary Cost Summary

Total BOM Estimate

\$301.60

Manufacturing Cost Estimate

\$5.90

BOM + Manufacturing

\$307.50

Samsung Galaxy S8 (SM-G950N) - Korea / Other Market

Itemized Components	Manufacturer	MPN	Description	Total BOM Cost
Display w/Touchscreen Integrated	SAMSUNG DISPLAY CO LTD	AMB577MQ01	5.77" Diagonal, AMOLED, LTPS, 2960 x 1440 , On Cell Touch (Y-OCTA), Flexible Display, Pentile Matrix, w/ Integrated 3D Touch PCB & Copper Foil, Includes Cover Glass	\$85.00
Major Mechanical / Electro-Mechanical Elements				
Rear Enclosure			Enclosure, Midframe, Machined Aluminum, Anodized, Glossy, w/ Injection Molded Glass Filled PBT, 12 Gold Plated Contacts, 192 Spot-Welded Points, & 22 Metal Tabs	\$22.50
Rear cover glass	CORNING INCORPORATED		Enclosure, Main, Bottom, Cover, 3D Curved Tempered Glass, 2 Holes, w/ Multi-Color Film, GORILLA® GLASS 5	\$5.70
IC Content				
Chipset (May include following)	SAMSUNG SEMICONDUCTOR INC		SAMSUNG CHIPSET	\$45.00
Apps Processor / Baseband	SAMSUNG SEMICONDUCTOR INC	Exynos 8895	Apps / Baseband Processor, Exynos 9 Octa Core, Quad Core Exynos M2 Cores 2.3 GHz, Quad Core Cortex-A53 Cores 1.7 GHz, Mali-G71 MP20, 10nm FinFET, PoP	Part of Chipset
RF Transceiver	SAMSUNG SEMICONDUCTOR INC	SHANNON 955	RF Transceiver, Multi-Mode, Multi-Band	Part of Chipset
Power Management ICs				\$2.30
PMIC - Primary	SAMSUNG SEMICONDUCTOR INC	S2MPS17	Power Management IC	Part of Chipset
PMIC - Primary	MAXIM INTEGRATED PRODUCTS INC	MAX77865EWZ	Power Management IC	
PMIC - Secondary	SAMSUNG SEMICONDUCTOR INC	S2MPB02	Power Management IC	Part of Chipset
Wireless Power Receiver	INTEGRATED DEVICE TECHNOLOGY INC	P93205	Wireless Power Receiver	
RF / PA Section				\$5.50
Front End Modules	MURATA MANUFACTURING CO LTD		FEM	
PAM	QORVO INC	QM78038	Transmit Module	
PAM	AVAGO TECHNOLOGIES INC	AFEM-9060	Transmit Module	
Memory				\$41.50
NAND (eMMC, MLC, ...)	SAMSUNG SEMICONDUCTOR INC	KLUCG4J1ED-B0C1	Flash, UFS NAND, 64GB, MLC	
DRAM	SAMSUNG SEMICONDUCTOR INC	K3UH5H50MM-NGCJ	SDRAM, Mobile DDR4-3733, 4GB, PoP	
User Interface Ics				\$6.60
Audio Codec	CIRRUS LOGIC INC	CS47L93	Audio Codec	
GNSS / GPS Receiver	BROADCOM CORP	BCM4774IUB2G	GNSS Receiver / Sensor Hub Combo IC, Multi-Constellation, GPS / GLONASS / QZSS / SBAS / BeiDou	
NFC	SAMSUNG SEMICONDUCTOR INC	S3NRN82	NFC Controller, w/ Secure Element	
Companion IC	SAMSUNG SEMICONDUCTOR INC	S5C73C3	Companion IC	
T-DMB Tuner	SILICON MOTION TECHNOLOGY CORP	FC8080	Tuner / Demodulator, T-DMB	
Camera Modules				\$20.50
Primary Camera Module			Primary Camera Module, 12MP, BSI(ISOCELL) CMOS, 1/2.5" Format, Auto Focus Lens, Optical Image Stabilization, 6P Lens	
Secondary Camera Module			Secondary / Iris Camera Module, 8MP(RGB)+5MP(Iris), BSI CMOS, Auto Focus Lens, 5P Lens(RGB)+3P Lens(Iris)	
Other Modules				
WLAN / BT Module(s)	SAMSUNG ELECTRO-MECHANICS		Bluetooth / WLAN Module, IEEE 802.11 a/b/g/n/ac, 2.4GHz / 5GHz, Bluetooth v5.0, MU-MIMO	\$6.00
Sensors				\$6.50
Accelerometer / Gyrocope	ST MICROELECTRONICS	LSM6DSL	Accelerometer / Gyrocope, 6-Axis	
Barometer Sensor	ST MICROELECTRONICS	LPS22H	Barometric Pressure Sensor	
Fingerprint Sensor	SYNAPTICS		Fingerprint Sensor Module, Area Type, Glass Cover	
Heart Rate Sensor	MAXIM INTEGRATED PRODUCTS INC		Heart Rate Sensor, w/ Plastic Housing	
Magnetic Sensor	ASAHI KASEI MICRODEVICES CORP	AK09916C	Electronic Compass	
Proximity Sensor	AMS AG	TMD4906	Ambient Light / Proximity Sensor	
Battery Pack(s)	SAMSUNG SDI	EB-BG950BA	Battery Pack, Li-Polymer, 1-Cell, 3.85V, 3000mAh, 11.55Wh, w/ Flex PCB & Board to Board Connector	\$4.50
Other BOM Content				
Box Contents (Includes AKG branded headset, Charger, Cables, Adapter, Etc.)				\$15.00
Power supply (charger)	DONGGUAN YINGJU POWER CO LTD	EP-TA20KBK	Charger, 5V/9V, 2A/1.67A, AC to USB Type A, w/ Protect Film	
Headset	AKG		Headset, Stereo w/ Microphone, 3.5mm Plug, 3.94ft, w/ Fabric Cable, w/ 3 Control Buttons, 1 Pair Earbuds	
Other BOM Costs Not Itemized Elsewhere			This includes such items as printed circuit boards, assorted discrete semiconductors, connectors, passive components (L,C,R) and other mechanical components not itemized above.	\$35.00