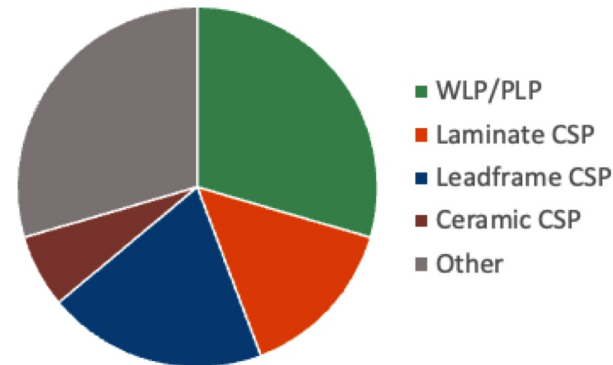


Samsung Galaxy Watch7 (Wi-Fi + LTE)

Teardown from TechSearch International, Inc.



61 Packages Examined



Contents and Highlights

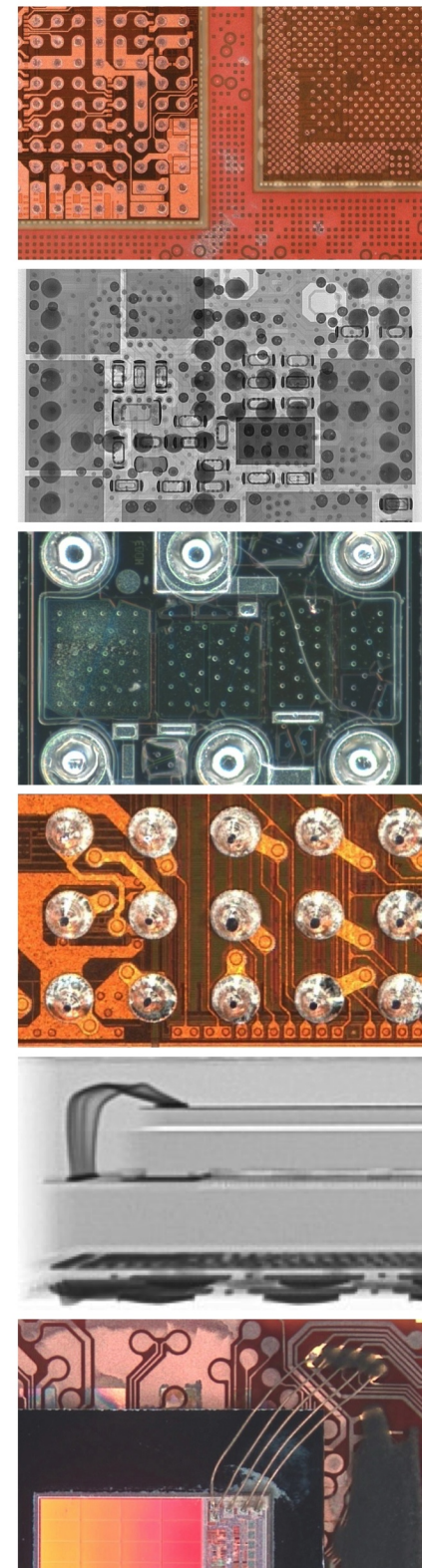
- 95-page report with package quantity summaries, high-resolution photos and x-rays, package dimensions, part numbers and descriptions, as well as analysis of packaging and assembly technologies discovered from package decapsulation
- 13 additional slides with construction analysis details for packages such as:
 - Samsung Exynos W1000 PoP with a stacked-die memory package mounted on top of a panel FO-assembled mobile processor, including RDL count and metrics
 - Qualcomm QPA6590 PAM and QFM6515 FEM, Samsung S5M9170 transceiver, Airoha AG3335M GNSS receiver with flash
 - LX Semicon LX83806 display driver
 - Flip chip-mounted photodiodes on redesigned biosensor board

Teardowns backed by 37 years serving as the industry's trusted source for semiconductor packaging trend analysis

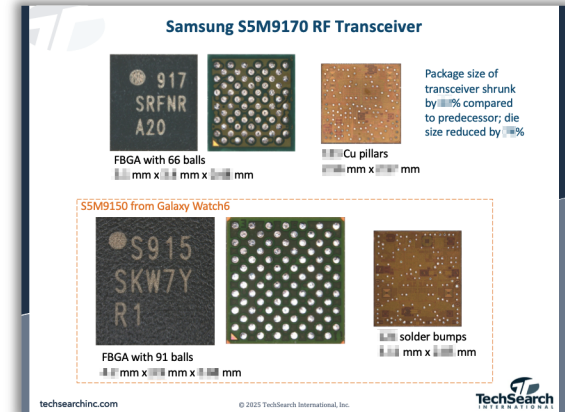
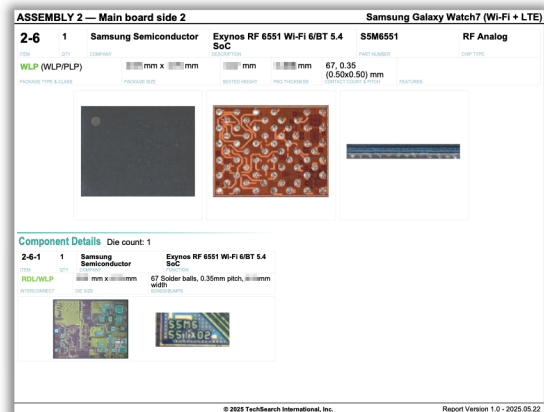
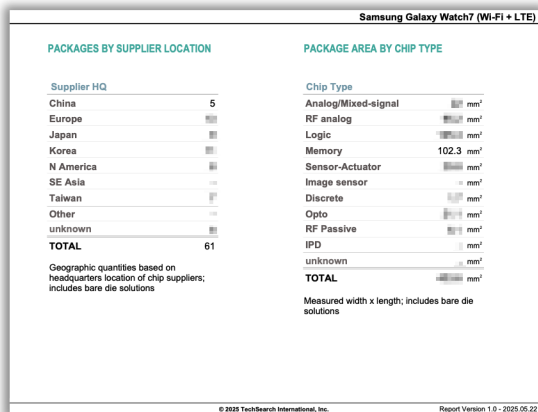
- Examination of all chips with emphasis on assembly and packaging technologies
- Superb quality photographs and x-ray images
- Both the packages and the die within are identified and characterized
- Detailed construction analysis of key chips and packages



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List of Packages

LINE	QTY	COMPANY	PART NUMBER	DESCRIPTION	QTY TYPE	PACKAGE	SIZE (MM)	CONTACT	PITCH	HS	FEATURES
1.1	1	Samung Semiconductor	BSE5535	Exynos W1000 AP with 1.1 Modules and PANC	Logic	FO-PLP	10.00 x 10.00	144	1.00	0	1.00
1.2	1	Samung Semiconductor	K200202M-A171	MCP (180G) LPOCDS + 32GB AMBC ANDAO	Memory	FBGA	10.00 x 10.00	144	1.00	3	3 PuP, Underfill, Wire bond, Stacked die
1.3	1	Texas Instruments	TUSB2E11	USB 2.0+USBD repeater	Logic	WLP	1.30 x 1.59 x 0.48	15	35	1	1.00
1.4	1	Altera	AG33535A	QNS5 receiver with 4MB	RF Analog	FBGA	10.00 x 10.00	144	1.00	0	1.00
1.5	1	Qualcomm	QPM6515	RF FEM (4G)	RF Analog	FBGA	10.00 x 10.00	144	1.00	0	1.00
1.6	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	FLGA	10.00 x 10.00	144	1.00	0	1.00
1.7	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	WLP	10.00 x 10.00	144	1.00	0	1.00
1.8	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	WLP	10.00 x 10.00	144	1.00	0	1.00
1.9	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	QFN	10.00 x 10.00	144	1.00	0	1.00
1.10	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	QFN	10.00 x 10.00	144	1.00	0	1.00
1.11	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	FBGA	10.00 x 10.00	144	1.00	0	1.00
2.1	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	FBGA	10.00 x 10.00	144	1.00	0	1.00
2.2	3	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	WLP	10.00 x 10.00	144	1.00	0	1.00
2.3	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	WLP	10.00 x 10.00	144	1.00	0	1.00
2.4	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	WLP	10.00 x 10.00	144	1.00	0	1.00
2.5	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	QFN	10.00 x 10.00	144	1.00	0	1.00
2.6	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	WLP	10.00 x 10.00	144	1.00	0	1.00
2.7	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	CSP-G	10.00 x 10.00	144	1.00	0	1.00
2.8	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	CSP-L	10.00 x 10.00	144	1.00	0	1.00
2.9	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	SON	10.00 x 10.00	144	1.00	0	1.00
2.10	1	Qualcomm	QPM690	RF PAM (4G and 3G)	RF Analog	SON	10.00 x 10.00	144	1.00	0	1.00

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