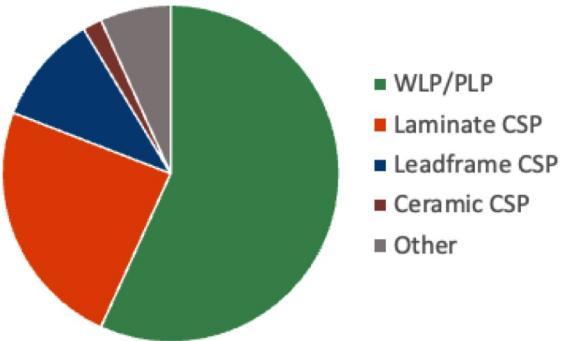


Apple iPhone Air

Teardown from TechSearch International, Inc.



162 Packages Examined



Contents and Highlights

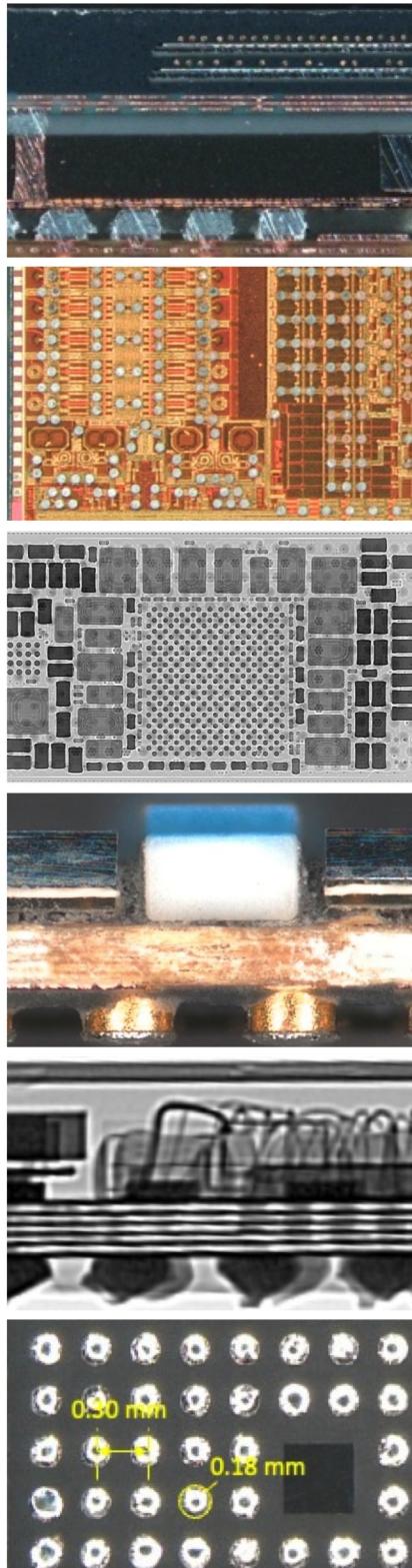
- 221-page report with package quantity summaries and details on every package and die in the phone, including high-resolution photos and X-rays, part numbers and descriptions, package and die dimensions, and analysis of contacts and interconnects
- 47 additional slides with extra details including PoP and main board cross sections, thermal management examination, advanced packaging technology analysis, company design wins, and other interesting new finds
- Deep analysis of Apple's A19 Pro application processor in FO-WLP, including RDL and Cu pillar measurements from cross sections
- Some of the new chips include Apple's C1X modem, large core power management module, Wi-Fi/BT/Thread module with Apple's N1 chip, Samsung NAND chip with flip chip-mounted controller from Apple, and a combined touchscreen and OLED support module

Teardowns backed by 38 years serving as the industry's trusted source for semiconductor packaging trend analysis

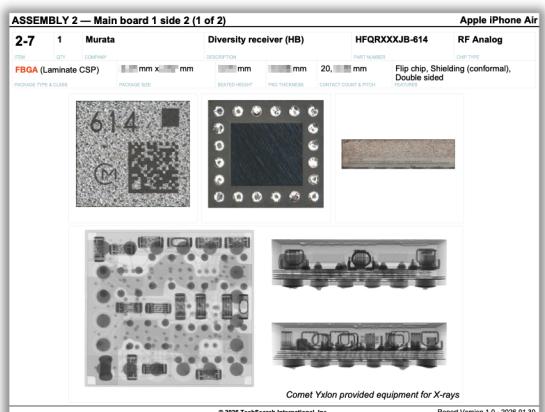
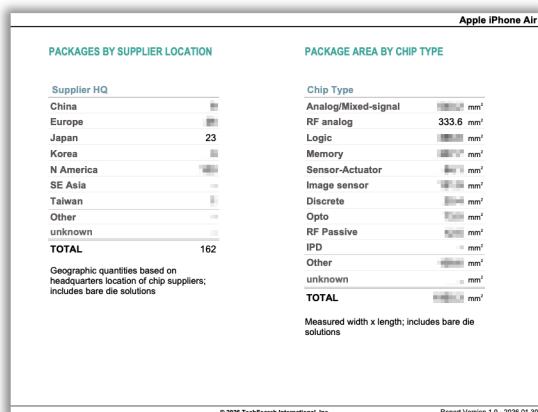
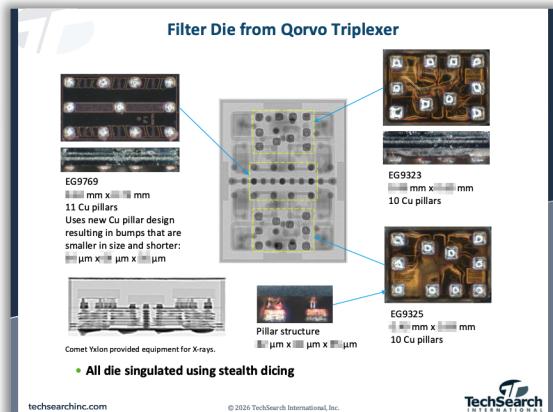
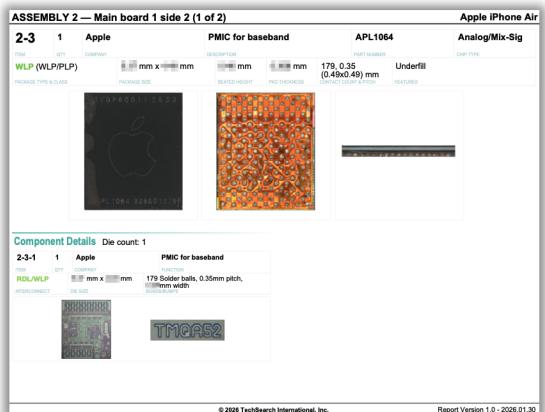
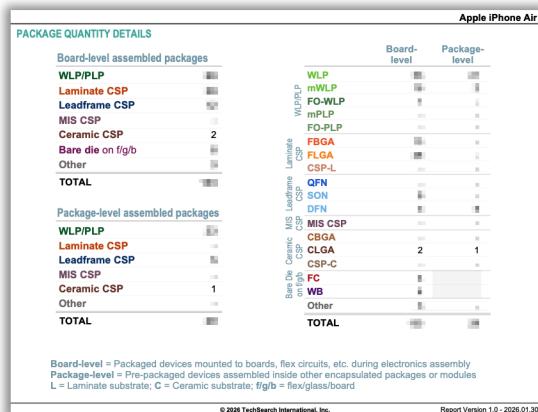
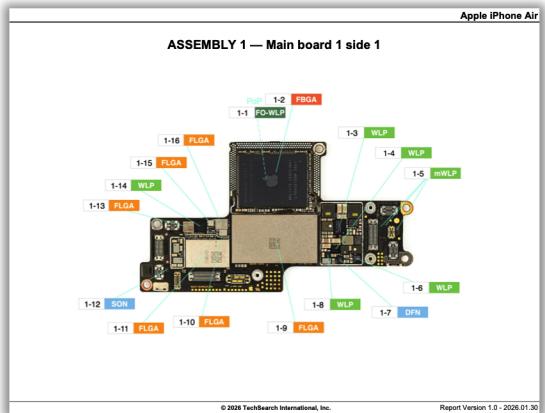
- Examination of all chips with emphasis on assembly and packaging technologies
- Superb quality photographs and x-ray images
- Both the packages and the die within are identified and characterized
- Detailed construction analysis of key chips and packages



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Sample pages from the report and slides



List of Packages

Part	Qty	Supplier	Part Number	Description	Type	Width	Length	Thickness	Die	Notes
1.1	1	SKYWORKS	SKY59729	Antenna coupler	WLP	1.00	1.17	0.31	1	4 PnP, Underfill, Wire bond, Stacked die
1.2	1	Samsung Semiconductor	K3DL4M4P-16Gb_HDQCV	16Gb LPDDR5X DRAM	Memory	FBGA	15.00	11.78	0.31	
1.3	1									
1.4	1									
1.5	1									
1.6	1									
1.7	1	SG Micros	SGM2039A	LDO regulator	Analog/Mix-Sig	DFN	1.20	1.59	0.41	8 0.4 1 Wire bond
1.8	1									
1.9	1									
1.9.1	1									
1.9.2	1									
1.10	1									
1.11	1									
1.11.1	1									
1.12	1									
1.13	1	Skyworks	SKY59520	Sky59 5GHz Wi-Fi FEM	RF Analog	FLGA	2.49	2.43	0.37	36 0.39 3 Flip chip, Shielding (conformal)
1.14	1									
1.15	1									
1.16	1									

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For pricing, please call +1-512-372-8887