

Corning produces ultra-thin bendable glass in Korea

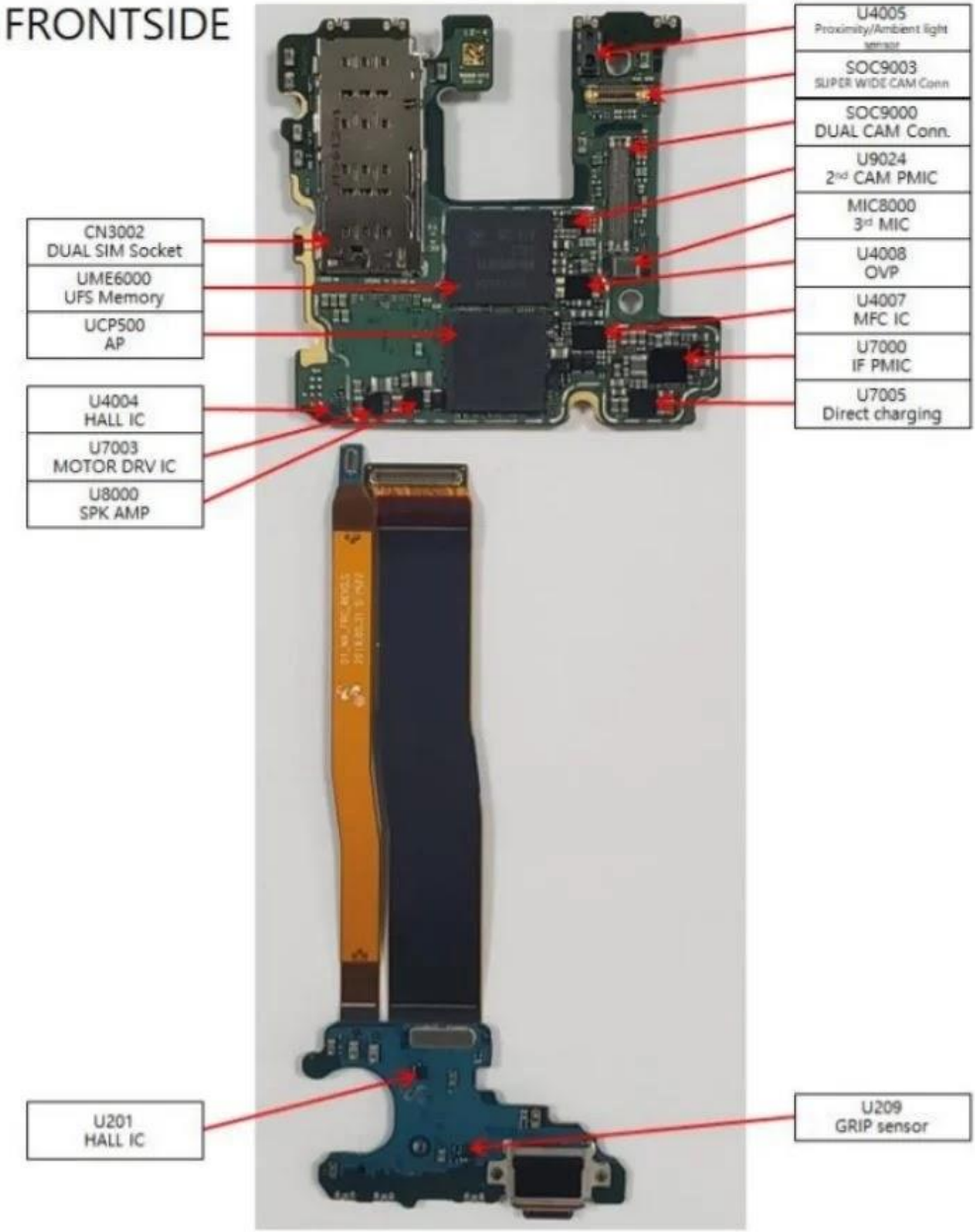
South Korea will become Corning's global bendable glass manufacturing hub, its CEO says

<https://www.kedglobal.com/electronics/newsView/ked202308310022>



SAMSUNG NOTE 10 DIAGRAM

FRONTSIDE



<https://www.mobilerepairingonline.com/2017/09/mobile-phone-pcb-diagram-with-parts.html>

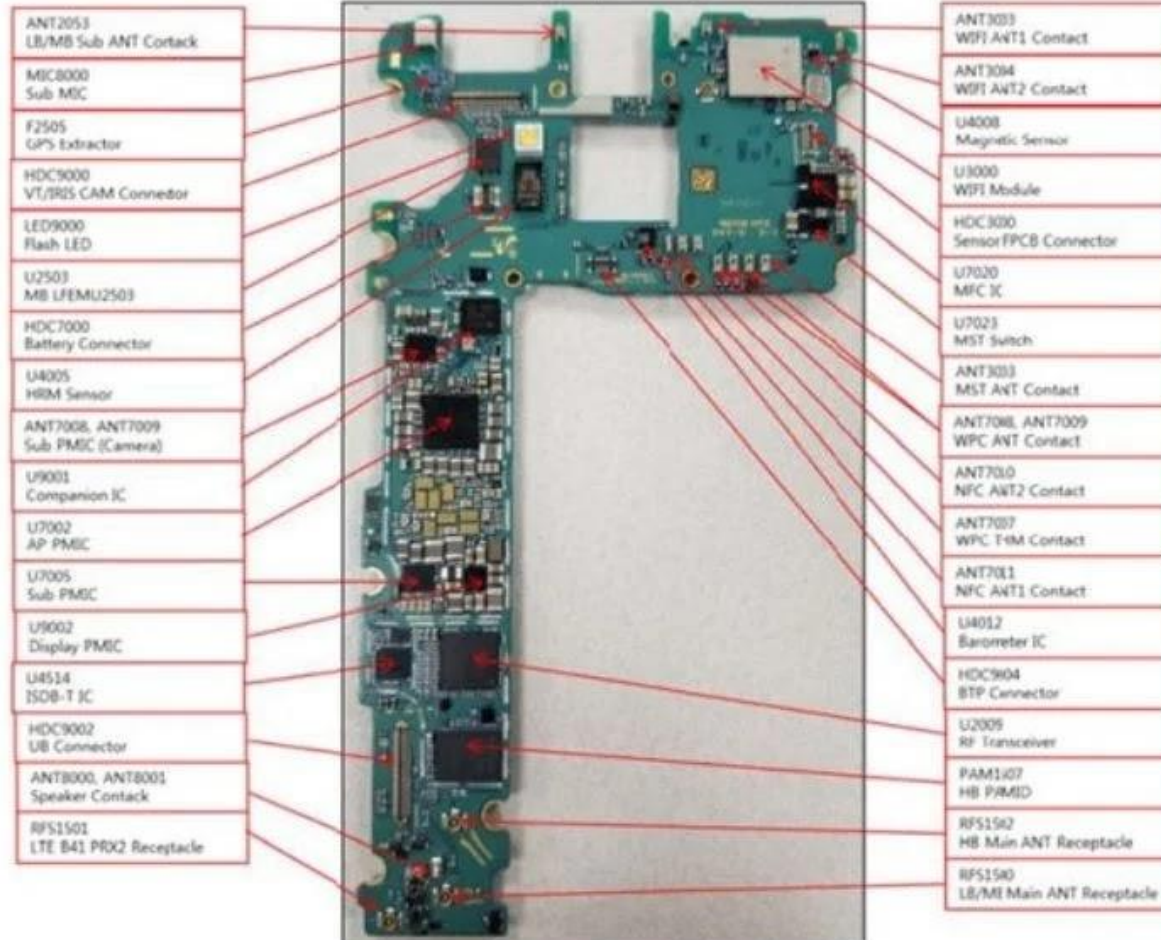
<https://www.mobilerepairingonline.com/2017/03/samsung-mobile-phone-circuit-diagram-pdf.html>

SAMSUNG S7 EDGE DIAGRAM

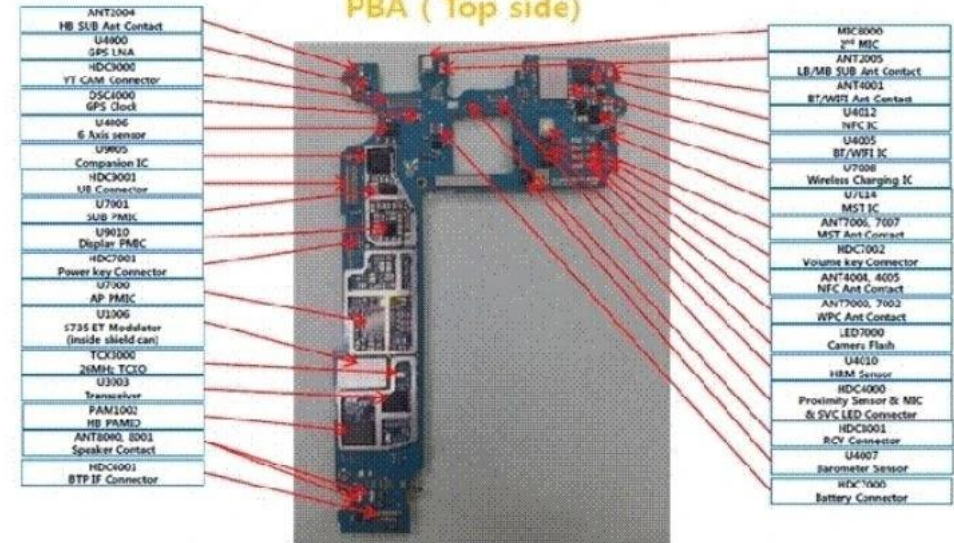
SAMSUNG GALAXY S7 DIAGRAM

8-1. Components Layout

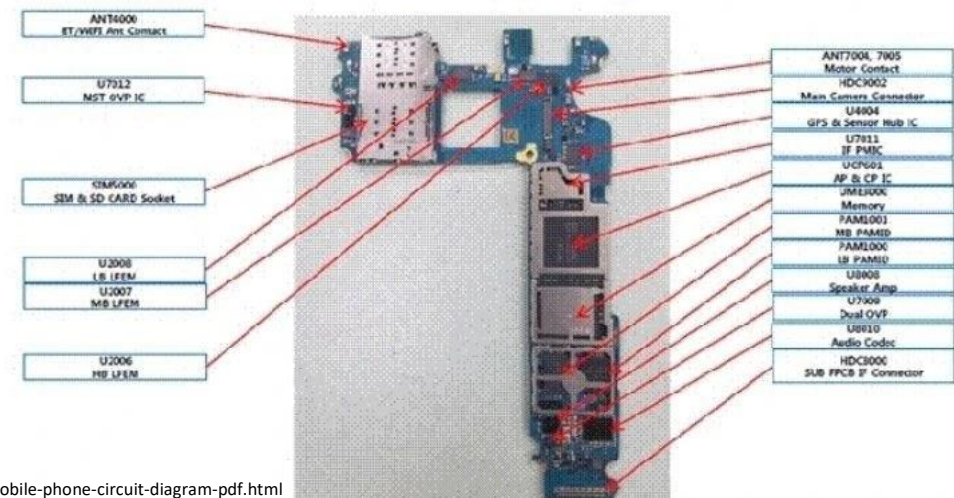
PBA (Top Side)



PBA (Top side)

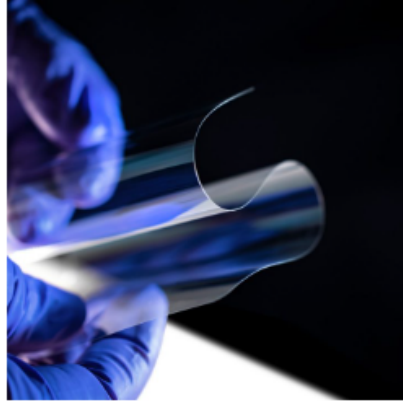


PBA (Bottom side)



Materials Science

 / Innovation / Materials Science / Glass / Foldable Glass



Is the Future Foldable?

Foldable devices have received much attention recently, as manufacturers introduce new form factors and large displays for smartphones and devices.

The current plastic-based solutions have fundamental challenges around optics, scratch and warp. We believe glass will be a key component of the ultimate cover

solution. That said, we also know today's glass solutions still need to be improved.

Corning has developed an ultra-thin, durable, and optically advanced glass solution that is commercially available today. We are actively developing next-generation glass-based solutions that will continue to push the boundaries of toughness and offer consumers the damage protection they expect of their devices. Corning has a long history of innovating our processes over time for new applications and we continue to leverage and advance our existing technology and manufacturing processes for the development of our ultra-thin, bendable glass. Our long history and learnings in optical fiber, display glass, and strengthened cover glass have given us deep insight into the challenges and potential solutions for our ultra-thin bendable glass solutions.

Electronics

Corning produces ultra-thin bendable glass in Korea

South Korea will become Corning's global bendable glass manufacturing hub, its CEO says

By Ye-Rin Choi Aug 31, 2023 (Gmt+09:00) | ⌚ 2 Min read



Wendell Weeks, chairman and chief executive of Corning, speaks during a news conference in Seoul on Aug. 31.



The ultra-thin bendable glass is so flexible that it can be folded and unfolded hundreds of thousands of times.

It was equipped in some products of [Samsung Galaxy Z Flip 5](#), the latest foldable phone model of the Galaxy series unveiled last month. The bendable substrates will be supplied not only to Korean customers but also other global companies.



The next-generation ultra-thin bendable glass developed by Corning

Weeks said the ultra-thin bendable glass technology is in its very early stages of development, but will evolve into entirely different formats.

SUPPLY CHAIN

Samsung supply chain: Corning to invest \$1.5bn in bendable glass output

U.S. glassmaker to boost South Korean production for foldable phones



Samsung's Z Flip 5 and Z Fold 5 phones rely on Corning's ultrathin, flexible glass. © Reuters

KOTARO HOSOKAWA, Nikkei staff writer

September 2, 2023 02:09 JST

SEOUL -- U.S. specialty glass producer Corning will invest \$1.5 billion in South Korea to increase supply capacity for products including ultrathin, bendable glass used in Samsung Electronics' foldable smartphones.