

710M

5G smartphones accounting for ~39% of total in 2023

1.2B

Smartphones with on-device AI inference by 2022

460M

Wearable shipments in 2023

The device technologies service covers smartphones, wearables, mobile broadband, accessories and new device form factors. It provides invaluable research and data synergies spanning these major sectors, including integral ecosystem analyses. Our coverage looks at new technologies and design concepts for all major product lines. This includes the most future-looking features and functionalities as well as key innovation across both hardware and software technologies. Special focus is given to technology innovation including application processing, next generation connectivity (including 5G), and sensor platforms. All coverage provides granular assessments of the most transformative technologies from the RF systems and modems to processing platforms to next generation functionalities, such as AI implementations, AR and VR use cases, imaging and display technologies, etc. The research also extends to strategic analyses of the key stakeholders and their market shares operating across this device ecosystem, plus a focus on relevant consumer and enterprise applications.

TOP QUESTIONS WE RECEIVE FROM INDUSTRY INNOVATORS

- Who are the major players in the vendor competitive landscape, and what pressures are they facing on their market share?
- What impact will changes to the network connectivity landscape, notably 5G and LPWA, have on the mobile devices market?
- How will key enabling technologies, including chipsets, sensors, UI innovations, flexible and curved screen technologies, impact the mobile devices and wearables markets?
- What RF challenges do 4.5G and 5G devices face, and how do these affect OEMs, suppliers and mobile carriers?
- What are the smartphone trends and forecasts my company needs to know? What new business models are evolving?
- In a saturating smartphone market, how do vendors differentiate their products and what opportunities are open to new entrants, such as local brands?
- What adjacent device segments should vendors consider to open new revenue streams?
- How does my company become a smartphone innovator?
- What are the IC market trends toward integration and fragmentation?
- What are the market opportunities for mobile device sensor technologies across various functions, application types and use cases?
- What are the top features to consider when designing smart mobile accessories?
- How are smart accessories set to transform the mobile experience?
- What new technologies will disrupt the mobile accessories market?
- What are the major wearable device types that my company should be aware of?
- How can wearable devices be used within different workplace areas?
- How can data from wearable devices be protected?

COVERAGE AREAS

- Mobile phone and smartphone shipments and forecasts
- 5G smartphones and chipset landscape
- RF Front End in smartphones vendor share and forecasts
- Smartphone ASPs and revenues
- Smartphone chipset shipments and market share
- Transformative & emergent consumer device technologies
- Tablets shipments and market update
- Flexible electronics for mobile device applications
- The future of mobile processing and modems
- Mobile IC platforms vendor share and forecasts
- Mobile broadband device shipments
- New device form-factors and technologies
- Devices vendor profiling and market shares
- Future of mobile image processing, sensors and software
- Mobile/smart accessories shipments, revenues and forecasts
- Wearables device market shares, revenues and shipment forecasts
- AI use cases transforming mobile and wearable device experiences
- Wearable enterprise and consumer forecasts
- Wearable data analytics
- Global, regional and country level data analysis

KEYWORDS

- 4G, Gigabit LTE, LTE-Advanced, LTE-Advanced Pro
- 4K displays
- 5G technologies
- Array/multiple camera systems
- Artificial intelligence
- Augmented reality
- Battery/charger accessories and technologies
- Brain-to-machine UIs
- Built in payments
- Connected notebook PCs
- Edge-to-edge displays
- Enhanced components
- Enterprise mobility management
- Facial Recognition
- Flexible/foldable displays
- Gesture control
- Hearables
- Headsets, form factors & technologies
- Healthcare devices
- Intelligent personal assistants
- Iris scanning
- Location services
- Machine vision
- Mobile accessories, in-box and aftermarket sales
- Mobile broadband modems (MBBs)
- Mobile components
- Mobile IC
- Mobile routers (MiFi)
- OLED displays
- Operating systems and platforms
- RF front end (RFFE) components
- Ruggedized products
- Screen technologies
- Semiconductors
- Sensors for mobile devices
- Smart accessories
- Smart biometrics
- Smart clothing
- Sports/fitness/wellness trackers
- Smartphones & featurephones
- Smartwatches
- Speech recognition
- Tablets & phablets
- Teardowns, mobile devices & wearables
- Ultrasound technology
- USB modems
- Virtual and mixed reality
- Voice recognition
- Waterproofing and dustproofing
- Wearable cameras & scanners
- Wireless charging