Swept Frequency Capacitive Sensing (SFCS) (Touche) Market Analysis: By Technology (Surface capacitance, projected capacitance, self-capacitance, mutual capacitance); By Application(Smartphones, Laptops, Tablets) With Forecast (2016-2021)

Description: Since the dawn of the first smartphone with touch functionality, almost every consumer electronic device has been brought into the market with some touch interface or the other. It is common place today to find a number of laptops with touch functionality in addition to the hard keyboard keys today. There is almost no smartphone across the globe, which does not have a touch interface. The automotive sector has also started employing touch interface across many of their models with the aid of haptic technology. In this regard, capacitance technology, which is used for many of the touch sensors, has seen a remarkable growth in the overall market because of these numerous markets. The application market however has still remained restricted to the few applications mentioned above. The capacitive technology will only be able to sense touch and not what type of touch or the force of that touch. In lieu of this, the market is now looking at sensors, which in addition to identifying touch are also able to identify the type of touch, which is used.

Swept Frequency Capacitive Sensing (SFCS) (Touche) technology allows the parent device what type of touch is applied based on different types of capacitive sensors used in the device. The type of touch which can identified can be whether it’s a “grasp” hold or a slide or a finger tap or a slap and so on. Based on this identification, the technology can now be applied to a host of different applications. The technology can also be used for security purposes. There have already been a number of tests for various applications one of which has been using the technology for physical access. Based on the type of touch or the combination of the types of touch, a door can grant access to an individual. This in a way works as a fingerprint for an individual. The same can be applied to consumer electronics and the automotive sector or the healthcare sector and so on. The technology is still in the early growth stages but is expected to have high penetration by the end of the forecast period.

The Swept Frequency Capacitive Sensing (SFCS) (Touche) Market can be segmented as:

- on the basis of technology
  - Surface capacitance, Projected capacitance, Self-capacitance, Mutual capacitance
- In terms of application
  - Smartphones, Laptops, Tablets, Wearable Devices, Interactive Monitors and Others
- By Geography
  - North America, South America, APAC, Europe, Middle East and Africa

Following are just a few of the companies that are operating in the Swept Frequency Capacitive Sensing (SFCS) (Touche) market.

- Analog Devices, Inc.,
- Cirque Corp.,
- Cypress Semiconductor Corp.,
- Infineon Technologies AG
- STMicroelectronics N.V.

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