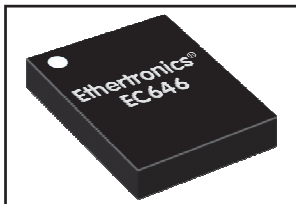


Ether Switch&Tune™

BT GSM/WCDMA/LTE, WiFi, RFID
 100 MHz to 3000 MHz



Ethertronics' EtherChip EC646™ using Ether Switch&Tune™ technology and high performance RF switching solves the challenges facing today's wireless industry and product designers. EC646 allows the RF front end to cover global bands and seamlessly improve performance in a dynamically changing RF environment by employing active tuning. EC646 can be used in a variety of applications including:

Cellphones | Tablets and Notebooks
 M2M Products | Other Wireless Devices

TECHNOLOGY ADVANTAGES

Ethertronics' Ether Switch&Tune technology and EC646 provide wider global band coverage (including LTE) with a single antenna element using parasitic loading matching techniques to improve RF front end performance, especially for stringent low band antenna efficiency requirements (LTE). Combining Ethertronics' extensive antenna systems expertise and proprietary algorithms, we can seamlessly adjust the characteristics of a wireless antenna:

- Covering all 2G/3G/4G cellular, Bluetooth®, GSM, ISM, RFID, WiFi bands and correcting the impedance mismatch.
- Reducing the antenna's physical volume by up to 50 percent without performance tradeoffs.

SYSTEM APPROACH—EASY INTEGRATION

Ethertronics' provides a total solution. The antenna, RFIC and algorithms are co-designed and optimized as a system to provide an easy to integrate, cost effective solution.



KEY BENEFITS

Features

Operation Frequency: 100 MHz ~ 3000 MHz

RF Switch:

- Ultra-Low Loss SP4T (shuntless architecture)
- Exceptional Linearity (IIP3 +80 dBm)

Wide Power Supply Range: (2.3-4.8 V)

Simple GPIO (General Purpose Input/Output) Control

Ultra-Small Packaging:

Total package size is 1.10 x 1.50 x 0.45 mm³

END USER ADVANTAGES

Fewer Dropped Calls

- Improved connectivity due to the EC646's ability to dynamically re-tune the antenna across bands.

Thin Devices

- Reduced antenna volume enables "thin" form factors desired by consumers even with the need to cover more frequency bands for LTE.

SERVICE AND SUPPORT

Extensive RF Experience

- EC646 is supported by documentation, and when needed, by the expertise of RF engineers who have integrated hundreds of antenna and RF system designs into wireless devices.

Global Operations & Design Support

- Ethertronics' global operations encompass an integrated network of design centers that provide local customer support.