

# INTEGRATED SOLUTIONS FOR THE WIRELESS INFRASTRUCTURE INDUSTRY

Enabling an every time, everywhere experience through a complete silicon to system offerings

## Overview

There has been a huge spike in the consumption of mobile and consumer devices in the market, and the way in which the consumer interacts with these devices has changed significantly. The user's demand is changing to a more guaranteed 'user experience' available every time, everywhere.

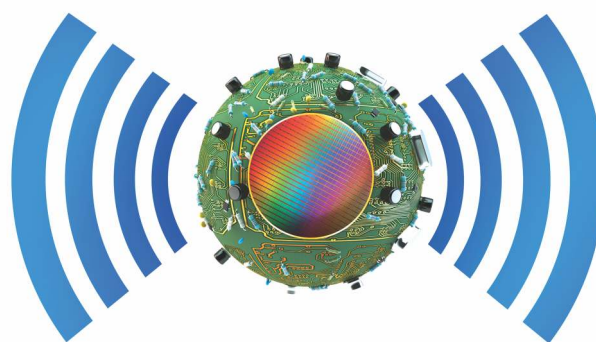
The challenge for the service providers is to deliver rapid innovation, keeping pace with market expectations, and creating better 'user experience' while keeping affordability under control. This has led to continuous upgrade of wireless infrastructure, and adoption of new technologies to address the market needs.

As the market needs are quite diverse, there is a need for the development and deployment of a different class of products like macro-cell and micro-cell type installations based on urban/rural or developed/developing economies.

In order to address these dynamic complex challenges, it has become imperative to OEMs, IP companies, and semiconductor manufacturers to have a strategic technology partner like Wipro who has the domain as well as technology expertise, and can provide silicon to system solutions.

## Wipro's Silicon to System Offerings

Wipro provides integrated silicon to system solutions to the wireless & networking infrastructure industry to address these complex challenges. These offerings enable IP companies, semiconductor companies, and OEMs to achieve their end user expectations, and realize cost saving and faster time to market benefits.



### Solutions for Semiconductor Companies

- Development of RF front end for GSM/WCDMA/LTE
- Development of CPRI/OBSAI router
- Development of baseband SOC using multiple DSP/processors
- Single-chip solution for metro cell type applications
- System solution development support to provide time-to-market advantage to OEMs

### Solutions for IP Companies

- Collaborating in order to ensure technology integration to the end products developed for the OEMs

### Solutions for System or OEM Companies

- Delivering a complete base-station development solution
- Custom ASIC development for differentiating features in the Remote Radio head (RRH) or baseband processing in the base station

## Value Proposition & Differentiation



**Neutral Vendor:** Wipro can bring the best technology across IP, semi- and system-companies to realize end market goals.

**Domain Experience:** Wipro has worked in wireless technologies for more than a decade. Our experts understand technology protocols and can work at the algorithm level. We also have experience in developing wireless IP technologies.

**End-to-End Solutions:** Wipro can provide a complete product solution from silicon development to system development.

**Past Experience:** Wipro has worked with customers to realize end-to-end base-station products and to develop custom RRHASIC solutions.

**Proof-of-Concept:** Wipro is planning a POC to demonstrate the capability of experience in baseband algorithms.

**Test Lab:** Wipro has an in-house product test lab with RF test equipment and a complete in-house product compliance lab. At the system level, we have in-house wireless test labs which are being used by a semiconductor customer to validate their product.

## About Wipro Technologies

Wipro Technologies, the global IT business of Wipro Limited (NYSE:WIT) is a leading Information Technology, Consulting and Outsourcing company, that delivers solutions to enable its clients do business better. Wipro Technologies delivers winning business outcomes through its deep industry experience and a 360 degree view of "Business through Technology" – helping clients create successful and adaptive businesses. A company recognized globally for its comprehensive portfolio of services, a practitioner's approach to delivering innovation and an organization wide commitment to sustainability, Wipro Technologies has 135,000 employees and clients across 54 countries. For more information, please visit [www.wipro.com](http://www.wipro.com)

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Wipro Technologies, Doddakannelli, Sarjapur Road, Bangalore - 560 035, India Tel: +91 (80) 2844 0011, Fax: +91 (80) 2844 0256, Email: [info@wipro.com](mailto:info@wipro.com)

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