

# With over 4 billion mobile subscriptions globally TenXc maximizes RF network performance

Wireless service providers in India, one of the world's fastest growing mobile markets, are using TenXc Wireless's performance-enhancing base station antennas, Bi-Sector™ Arrays

## Fast facts Corporate profile

TenXc Wireless™ is a pioneer in the design and manufacture of array antennas for wireless mobility networks. TenXc's innovative antenna solutions improve radio network efficiency and quality by addressing spectral efficiency, link quality, and coverage constraints with reduced network costs and time-to-deployment. TenXc's unique beamshaping and array technologies are based on years in the research and development of radio frequency advancements for commercial wireless applications. TenXc Wireless is a privately held company with its corporate office in Ottawa and a subsidiary in India.

## Why Ottawa

TenXc Wireless is located in the heart of Ottawa's high tech sector in Kanata, Ontario, also known as Silicon Valley North. The 90,000 Kanata residents live in safe and affordable suburbs where an average family home can be had for less than CDN\$300,000. Residents also enjoy commutes to work of less than half an hour.

## Business advantage

Adding a TenXc antenna to a network will maximize a service provider's current frequency performance in a cost-effective manner as sector-splitting can provide operators with up to double their existing network capacity. Service providers using TenXc's products will also notice improved quality of service, and higher throughput for data services.

With more than half the world's population using mobile devices and nearly a quarter using the Internet, wireless service providers need to improve radio frequency network efficiencies to support customers and to be able to meet the growing demand for high-speed data services. Ottawa-based TenXc Wireless™ Inc. is a pioneer in the design and manufacture of array antennas for wireless mobility networks.



**Canada's Creative Economy Capital**

TenXc uses advanced antenna technologies to improve radio network efficiencies and quality worldwide. TenXc's innovative solutions improve spectral efficiency, link quality and coverage constraints in a rapid, cost-effective manner, while reducing time-to-deployment. The company's unique beamshaping and array technologies are based on years of research and development in radio frequency advancements for commercial wireless applications. The TenXc team brings 30 years of extensive experience in radio frequency technology with top-level executives who previously held senior roles at Nortel Networks, Alcatel-Lucent Inc., T-Mobile Inc. and Microcell Connexions Inc.

Founded in 2002, TenXc Wireless is a privately held company with its corporate office in Ottawa. Recently, TenXc has launched a wholly owned subsidiary in India. Based in Delhi, this growing team will provide local contact and support to customers in India and its immediate neighborhood.

TenXc Wireless has enjoyed tremendous market acceptance of its Bi-Sector Arrays, with orders from many of the world's best-known and largest operators. The company recently had several major wins in the Asian market with Tier-1 wireless operators. TenXc 850/900 spectrum Bi-Sector™ arrays will be implemented into an Asian wireless CDMA network as it evolves third generation data services in the Asian market. Various models of Bi-Sector Arrays will be implemented more.

*According to The Guardian, there are over 4 billion mobile subscriptions worldwide, up from a single billion in 2002. This growth is putting significant pressure on wireless service providers to add frequencies to improve service.*

into another rapidly expanding Indian operator to facilitate growth of its 900 MHz band and 1800 MHz band GSM networks.

### **Why Ottawa**

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Kanata has all the conveniences of a city, including many shopping centres — such as Kanata Centrum. For sport enthusiasts, Kanata is home to NHL franchise team The Ottawa Senators. Playing at Kanata's Scotiabank Place, the team has made the Stanley Cup playoffs for 11 of the past 12 seasons. Besides hockey, the 20,500 capacity arena holds other events, such as rock concerts, figure skating, international conferences and trade shows.

### **Business advantage**

According to the U.K.'s *The Guardian*, there are over 4 billion mobile subscriptions worldwide, up from a single billion in 2002, (as reported by the International Telecommunications Union, an agency of the UN). This growth is putting significant pressure on wireless service providers to add frequencies to improve service.



However, as there is a finite amount of spectrum, prices for spectrum are rising steadily. TenXc's Bi-Sector Arrays, with unique beamshaping technology and state-of-the-art array design, allow operators to divide one sector into two, using only one antenna with two asymmetric beams. Sector-splitting can provide operators with up to double their existing network capacity in a cost-effective manner. This event leads to increased network capacity, frequency performance maximization, reduced dropped-call rates and an alleviation of hot spot problems. Wireless service providers using TenXc's antennas will then have the capability to use allocated spectrum to add new customers and offer reliable high-speed data services.

"Carriers in Asia face one of the highest subscriber growth rates in the world. Therefore it is essential that they maximize use of spectrum and minimize the number of new site builds in order to keep their costs under control while providing customers with the best service possible in this competitive market", said Rajiv Pancholy, Chairman and CEO of TenXc Wireless. "The Bi-Sector Array is the ideal solution to this growing problem."

According to the Telecom Regulatory Authority of India (TRAI), India adds millions of mobile subscribers each month. TenXc is currently engaged with multiple Tier-1 wireless providers in India.

As mobile users migrate toward updated services due to the introduction of phones such as Apple's iPhone and RIM's BlackBerry Bold, wireless service providers are experiencing an unanticipated strain on their network. The growth in video applications and social networking tools (such as Facebook) has created an unanticipated spike in data traffic as well. TenXc's Bi-Sector Array antenna technology is applicable to 3G networks and will well-serve demanding network providers and users alike.

### **Future growth plans**

To meet growing demand, TenXc is currently looking for experienced radio frequency engineers to add to its team. TenXc is also looking to enter partnerships with additional wireless service providers around the globe.

### **Contact information**

TenXc Wireless Inc.

+1-613-591-6696

[www.tenxc.com](http://www.tenxc.com)

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