

# Corporate Fact Sheet

## Overview

E-Band Communications Corporation designs and manufactures the highest performance multi-gigabit capacity wireless backhaul systems based on 70-80 GHz millimeter-wave technology. The company also sells advanced, ultra-compact 60 GHz solutions. Our customers include Carriers (mobile/cellular, Fixed Wireless/ISP) and Enterprises (Business, Government, Security, Education and Healthcare). Customers around the world, including top 4G carriers, use E-Band radios in applications such as 3G, 4G, WiMAX, LTE, mobile backhaul, LAN extension & security backhaul. E-Band has deployed over 3,000 radios in over 30 countries.



## Technology Advantage

E-Band Communications has a long-term exclusive field of use license agreement with Northrop Grumman Corporation for its E-Band Monolithic Microwave Integrated Circuit (MMIC) technology. A highly integrated multifunction GaAs MMIC-based chipset is used by E-Band to develop low cost, high performance millimeter wave radio communication systems. This technology, including an industry leading quarter watt power amplifier developed by E-Band, provides our customers unparalleled cost and performance advantages.

## Product Advantages

- Highest output power in the industry (+23dBm) and highest antenna gain in the industry at 45dBi (with 1 ft). E-Band has ~7dB higher link margin than its nearest competitor.
  - This enables E-Band to provide GigE rates when competing solutions have to enable Adaptive Rate and reduce throughput 90% (to 100Mbps).
  - This ensures ~25% longer distances with the same availability as competing solutions (or provides "one-nine" better availability at the same distance).
- Radio is half the weight (8.5 lbs), half the size (Diameter 9.99 in x Height 3.12 in), and consumes half the power of the nearest competing radio (30W vs 60W).
- E-Band radios use Power-over-Ethernet (E-Band exclusive) or -48 VDC inputs.
- Lowest latency in the industry: ~5 microseconds.
- Supports Ethernet Jumbo frames to 16,000 bytes and higher.
- Field-replaceable GigE interface: MM or SM fiber or Copper RJ45 (patent pending).
- Available 2Gbps full duplex (2.5Gbps over the air) solution (E-Link 2500).
  - All E-Band radios can be field upgraded to 2.5Gbps via OMT coupler.
- Optional MultiPort™ Indoor unit eases transition from 3G to 4G networks by providing configurable TDM and IP capabilities. MultiPort uses plug-and-play interface modules (up to 23xE1/T1, 3xSTM1, 4xEthernet 10/100/1000baseT).
- Ultra compact 60 GHz solution for PicoCell networks (street level connectivity)



## Recent News

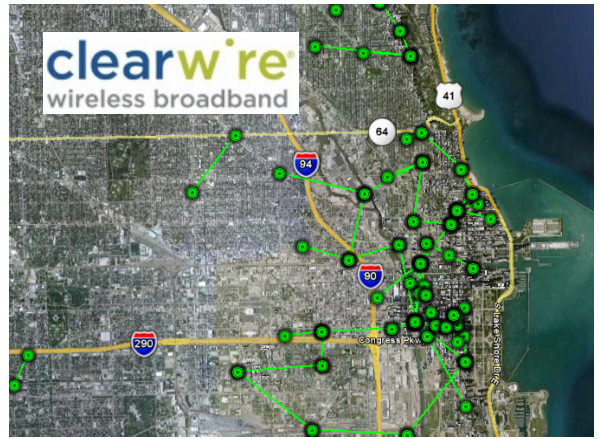
- E-Band Launches New Flagship Product, Providing Innovative 4G Backhaul Solution with the [E-Link 1000LR](#)
- E-Band Communications Introduces [E-Link MultiPort™](#), Offering Carriers Best-in-Class TDM and IP Versatility for 4G Transition
- E-Band Communications Takes Industry-Leading Performance Leap with [2.5 Gbps Backhaul Solution](#), Enabling 4G Carriers to Support Bandwidth-Hungry Applications
- E-Band Communications Delivers 80 GHz Gigabit-Ethernet Wireless Backhaul for [clearwire's 4G Network](#)
- E-Band Communications and [Aviat Networks Sign OEM Agreement](#) for High Performance 70/80 GHz Backhaul Solutions
- E-Band Communications [takes market share lead](#) in 70-80 GHz wireless gigabit backhaul market

clearwire  
wireless broadband



## 4G Carrier Example (Clearwire)

The aerial image at right displays the locations of E-Band Communications' gigabit radios deployed by Clearwire in the most advanced 4G network in the world. This image shows their Chicago Metropolitan Area Network. Such city-wide deployments are occurring around the world, utilizing E-Band's high performance 70/80GHz solutions. Each green dot represents the FCC licensed location of one or multiple E-Band Communications radios.



## Management Team

Sam Smookler, CEO & President (co-founder)  
Saul Umbrasas, Senior Vice President, Sales & Marketing (co-founder)  
Russ Kinsch, CFO  
Andrew Pavelchek, Vice President, Engineering  
Elsbeth Kahn, Vice President, Operations

## Investors

### Avalon Ventures

Avalon Ventures is a venture capital fund focusing on companies in life sciences, wireless communications and Web 3.0 media. The collective market cap of Avalon's portfolio companies exceeds \$11 billion.

AVALON VENTURES

### Hercules Technology Growth Capital (NASDAQ: HTGC)

Hercules Technology Growth Capital, Inc. (market cap US\$304M) is a specialty finance company providing growth capital to technology and life science companies at all stages of development.



### Sprint Nextel Corporation (NYSE: S)

Sprint Nextel Corporation (market cap US\$11.4B) offers wireless and wireline communications products and services to consumers, businesses and government users in the U. S. and internationally.



### Reliance ADA Group

Reliance is among India's top 3 private sector businesses (market cap of US\$ 81B). Reliance Communications is a telecommunications service provider and ranks among the Top 10 Telecom companies in the world.



### ADC Telecommunications (NASDAQ: ADCT)

ADC Telecommunications, Inc. (market cap US\$639M) provides broadband communications network infrastructure products and related services worldwide.



### Investec (JNB: INL, LON: INVP)

Investec provides a diverse range of financial products and services to a client base in three principal markets, the United Kingdom, South Africa and Australia, as well as certain other geographies.



### Express Ventures

Express Ventures is a venture capital company that assists leading US technology companies. The fund's limited partners consist of 47 of San Diego's elite technology entrepreneurs, business leaders and investors.



### OpenAir Ventures

OpenAir Ventures is an early stage venture capital firm focused on making equity investments in innovative companies that are advancing the next generation mobile and wireless market.



*Over 3000 radios deployed in the field...  
in over 30 countries*

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