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# CIAN::technology overview

Carrier Interferometry (CI™) enables a new signal architecture that improves the performance of every wireless networking device.

CI applies counter-intuitive principles of quantum wave mechanics to signal processing and enhances the capacity and performance of all wireless standards.

It is backed by more than 12 years of research, one issued patent and dozens of international and US patents pending.

During the past three years, CI was presented in over 40 technical publications and 30 conferences. This research, sponsored by NASA, revealed that when CI is applied as a common platform for wireless networking, it simultaneously provides the following benefits:

- Increases capacity (data rates 2 - 88 times faster)
- Enables next generation security through signal masking
- Adapts to any communications protocol or standard (FHSS, DSSS, OFDM)

our products

- Wireless Local Area Network
- Wireless Gigabit Area Network
- Wireless Personal Area Network
- Wireless Embedded Area Network

"At the beginning of the last century, the inability of classical physics to adequately describe our universe led to the development of quantum physics. At the beginning of this century, the inadequacy of classical multiple-access protocols is driving the development and acceptance of Carrier Interferometry (CI).

CI is based on quantum Interferometry principals that provide multiple-access

- Uses inexpensive mainstream manufacturing processes
- Extends battery life or increases range via improved performance (3 - 8dB gain)
- Improves tolerance to interference

Although it is a rapidly expanding market, low data rates, confusion over competing standards, and security issues have slowed acceptance of new technologies and limited market growth.

CI removes these barriers to growth and accelerates worldwide adoption of wireless networking. This will allow CIAN to capture a significant share of one of the fastest growing segments in the communications chipset market.

protocols with unsurpassed improvements to capacity, signal quality, range and power efficiency."

**Steve Shattil**
Inventor of Carrier Interferometry

Contact CIAN

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