

Company Overview November 2014



Abundance the carbon era



Integration silicon meets carbon



Evolution escape all limits

Company Snapshot





Users want...



Increased Battery Life

Increased Power Efficiency

Less Heat

Increased Power Efficiency

Reduced Weight

Less Power Demand Consolidate Components



Reduced Cost
Integrating Components

Sustainability

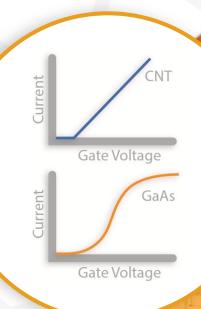
Natural abundant carbon Fair Trade

Increased Data Rates

Wide Bandwidth, Low Noise Higher Frequency

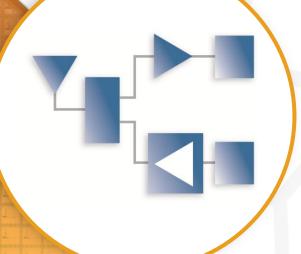
Our Vision





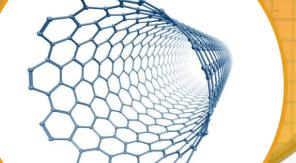
Carbon Era

full integration, Si meets carbon, Si compatible processing



Carbon Performance

superior linearity characteristics, low noise



Wireless Design

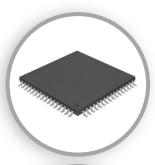
RF + digital integration, consolidation of radios

Carbon Nanotech

quasi ballistic transport 99%, semiconductor purity, 7x times higher Vsat

Wireless Growth Markets





Front End Modules

Wide bandwidth to accommodate 5G & 802.11ad (>60GHz) Market Growth >12% per year to \$13B in 2018



Wearables

New functionality to accommodate flexible embedded RF chips Market Growth 24% per year to \$11B in 2020



Vehicular Communication Systems

Higher frequency to accommodate 63-64GHz communications Market Growth 11% per year to \$30B in 2019

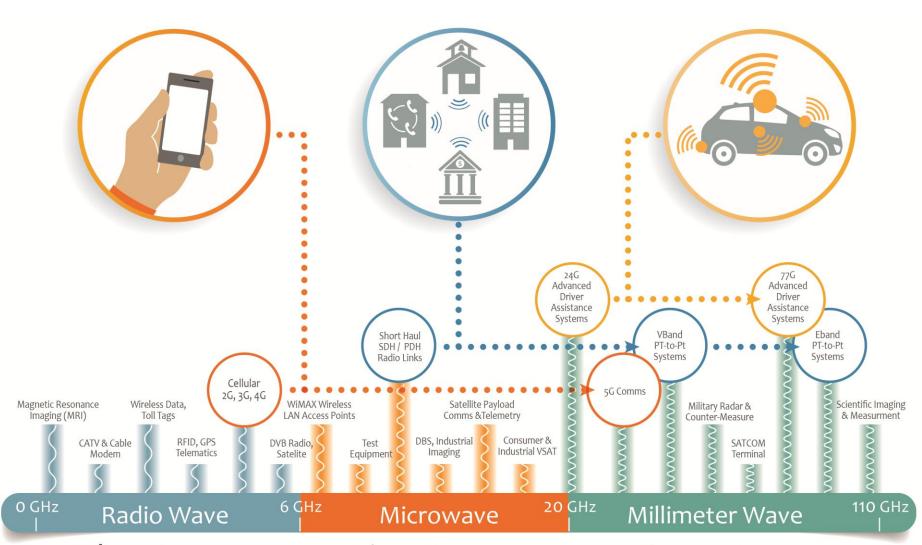


Internet of Things

Low power and higher frequency, RFID, WiGig, E-band and ISM (GHz) Market – too big, touches all product segments

Trends to Higher Frequency





Electromagnetic Frequency Spectrum

Example: iPhone

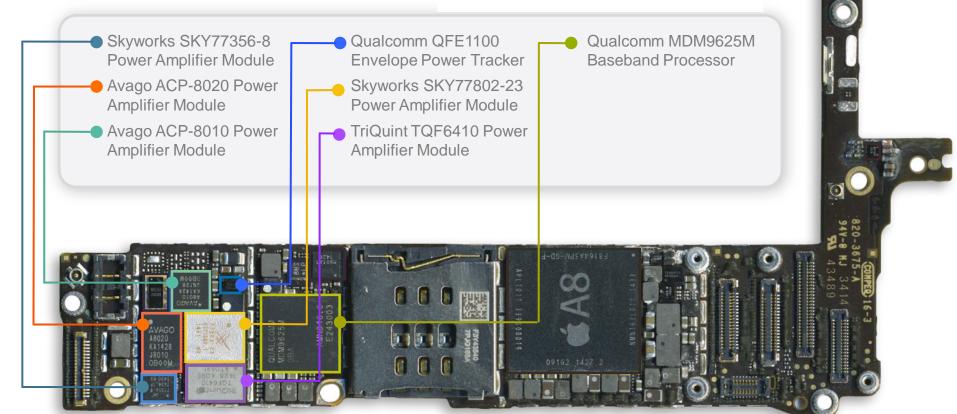


Incumbent Technology (III-V & Si)

- Power loss in OFF state (both DC & RF)
- Lack of super linear devices to consolidate radios
- Inability to Monolithically Integrate (III-V with Si) towards 5G

Carbon Platform

- ✓ RF + DC platform integration (carbon + Si)
- ✓ Reduce chip count
- ✓ Higher linearity, wider bandwidth, lower noise
- ✓ Higher frequency operation towards 5G



Ecosystem



Foundry

RFIC (MMIC)

Distributors

OEM













win















































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