



Safe Harbor

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Ceragon Snapshot

- Ceragon is the leading provider of wireless transport solutions for mobile operators and private networks globally
- Enabling agile and flexible network deployment, evolution and modernization to 4G & 5G
- Leading market position is driven by strong technology advantage:
 - Vertically integrated solution, from chipset to system, drives unmatched performance
 - Cutting edge technology and expertise to meet any network approach, including open networks & virtualization
 - Ceragon's solutions have been adopted by Tier 1 mobile operators and leading private networks globally













- 20+ years of R&D driving significant barriers to entry
- Founded in 1996 and headquartered in Tel Aviv, Israel
- Strong execution has driven strong net income growth and significant margin expansion:
 - Gross margins have increased from 25.2% to 33.9% (b)
 - During 2019, 4G to 5G transition affected net income

GLOBAL SCALE	
+2,000	total customers
+1,000,000	systems deployed
+140	countries with systems deployed
~900	employees globally
\$2.20-\$5.04	52 week low/high ^(a)
North America P··Mobile· Sprint	Europe APAC
XPLORNET Bell Digicel	pro%imus Constellation Curono arqiva
Latin America Latin America Latin America Latin America Latin America	Africa India Dairtet Jio Mic Idea
Century Link	telecom

Source: Nasdaq as of 11/1/2019

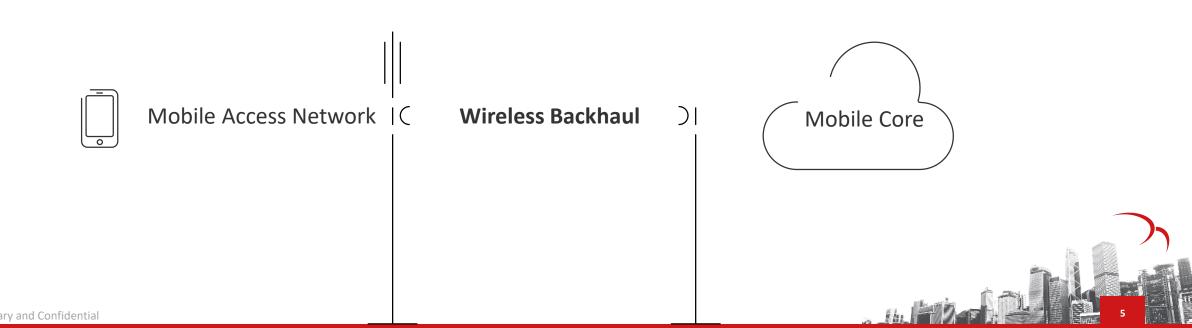
Represents non-GAAP gross margin in FY2014 and FY2018





Wireless Backhaul Critical Technology to Gigabit-LTE and 5G Networks

- Wireless backhaul serves as an alternative to fiber-optic transport networks and a primary solution for network densification
- Critical since it is a faster and more cost-effective deployment vs. fiber-based deployment
- Connects approximately 50% of all cell sites globally
- Proportion of fiber vs. wireless backhaul is expected to remain fairly constant through the evolution to 5G networks





Best-of-Breed Strategy: Sell Customer Value

Seek Best-of-Breed Focused Deals

- Focus on service providers seeking the best wireless backhaul solution as main factor for vendor selection
- Focus on those customers that invest resources to assess vendors' ability to address their network-specific challenges
- Most private network customers are part of this category
- Increasing importance in 5G

Avoid Bundled/Price Focused Deals

- Avoid end-to-end network bundling, with no specific vendor selection process for wireless backhaul
- De-emphasize customers that lack the skills/ resources for thorough evaluation of wireless backhaul vendors
- Avoid situations where price is the primary or only factor to determine vendor selection



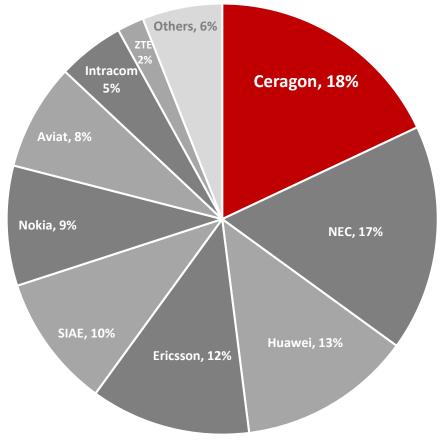


Largest Specialist Serving the Best of Breed

Global Wireless Backhaul Market (2018)



Best-of-Breed Market Segment (2018)



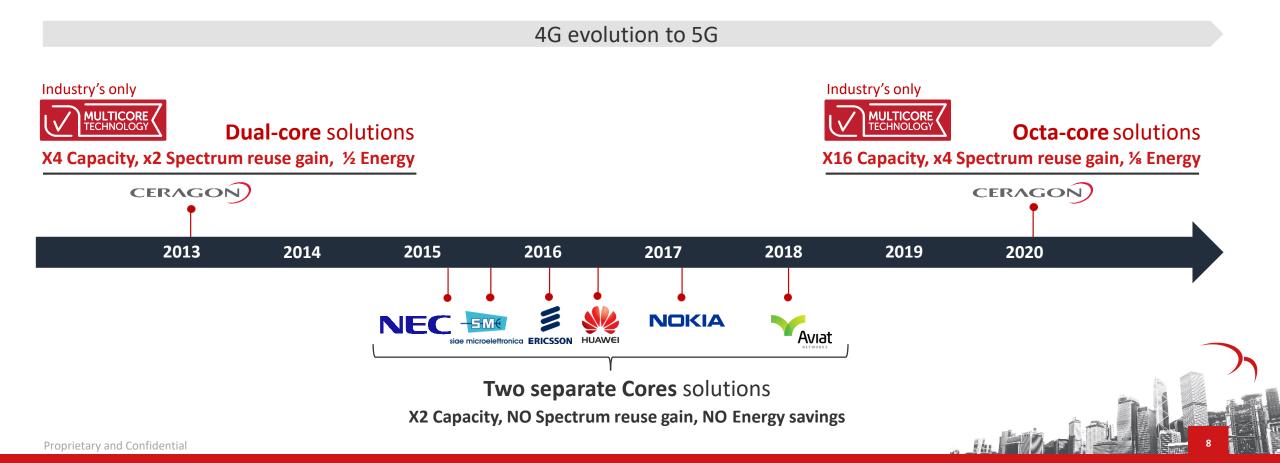
Sources: SkyLight Research, March-2019. Ceragon estimates, March-2019.



Technological Industry Leadership

Ceragon's Multicore technology resolves the key challenges associated with wireless backhaul as networks transition to 5G

Capacity | Spectrum | Energy | Real-estate





Key to Innovation is Vertical Integration

Enables design-to-cost and first-to-market advantages

- Chip design
- Software design
- Hardware design
- Systems

Full Vertical Integration

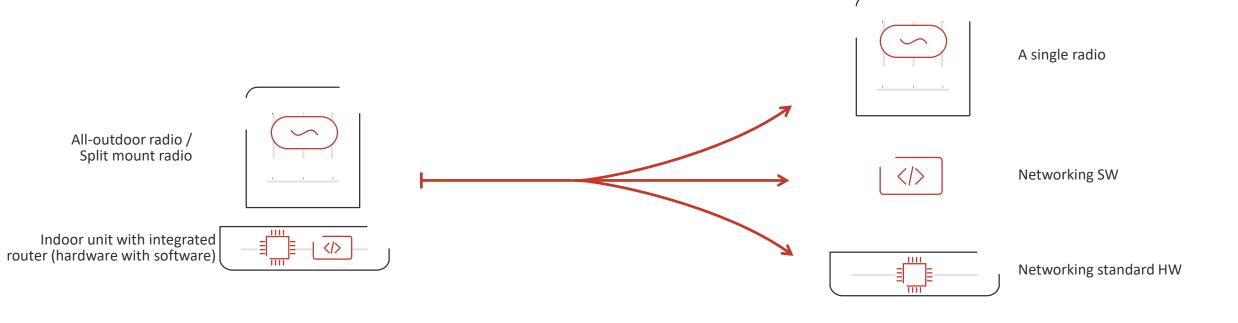


FIBEAIR IP-20 & IP-50 PLATFORMS MULTICORE EVERYWHERE - IN ALL DEPLOYMENT SCENARIOS





Disaggregated IP-50 Wireless Backhaul Resolves growing 5G challenges



Displacing proprietary hardware-software combinations from generalist vendors

Separating software from hardware in order to innovate both more rapidly



IP-20 All-Outdoor Solutions Lead the Market Since 2013

Increasing demand for all-outdoor wireless backhaul

- Simplified site acquisition
- Fast installation and commissioning
- Efficient use of limited spectrum
- Super-fast capacity upgrade path
- Enabler for fast 5G deployment in many scenarios



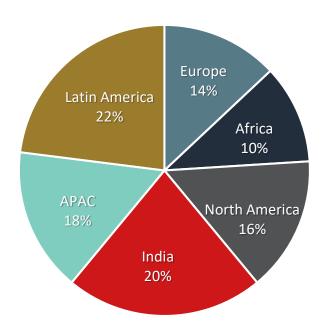
Proportion of Ceragon's equipment shipments represented by all-outdoor units has increased significantly to >60%, compared to <50% all-outdoor units in the overall best of breed market





Global Reach and Strong Customer Base

- Over 1 million radios installed in over 140 countries
- Supplier for major global Tier 1 operators
- Multiple new 5G design wins in 2019





Revenue by Geography — Last 12 months

- Presence in all regions
- Purchasing decisions made both centrally and regionally

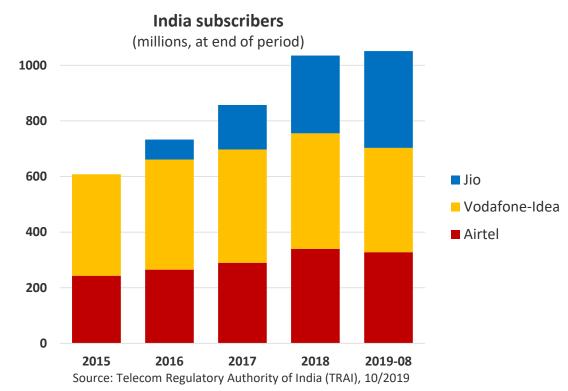


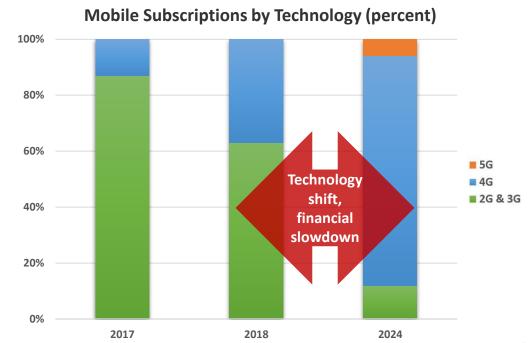
Network Spending in India Moving at a Slower Pace

BIG-3 operators' net subscriber growth in 2018: 178M; moderating in 2019

Data consumption growth expected to continue with 72% CAGR through 2022

Aggressive 4G & 5G network investments expected due to hyper-competitive market, with temporary near-term slow down for local dynamics of 4G to 5G transition





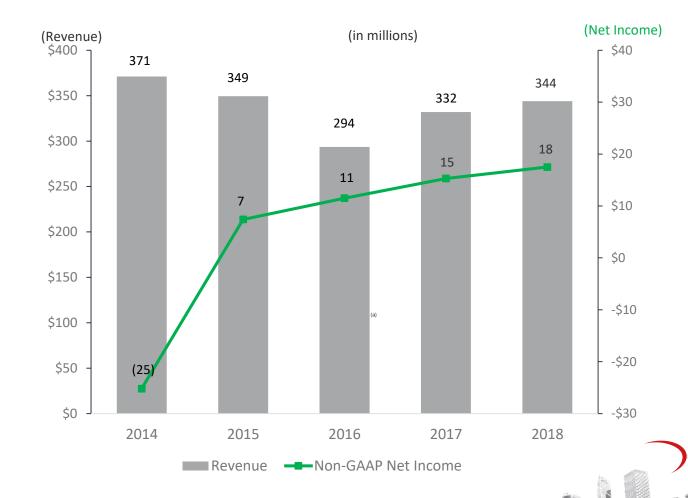
Source: Ericsson Mobility Reports: 06/2019, 11/2017





Track Record of Execution

- Focus on maximizing gross profit dollars
- Consistently profitable business model during past 4 years
- During 2019, 4G to 5G transition negatively affected revenue and net income



Note: Financial metrics are presented on a non-GAAP basis.



Strong Balance Sheet

- Short-term bank debt; >\$22 million unused borrowing capacity
- Credit facility is used as business tool to accommodate short-term increase in working capital needs

	(U.S. dollars in millions) (Unaudited)
	a/o September 30, 2019
Cash & cash equivalents	20.5
Bank debt	17.4
Inventory	67.7
AR	126.2
DSOs	154





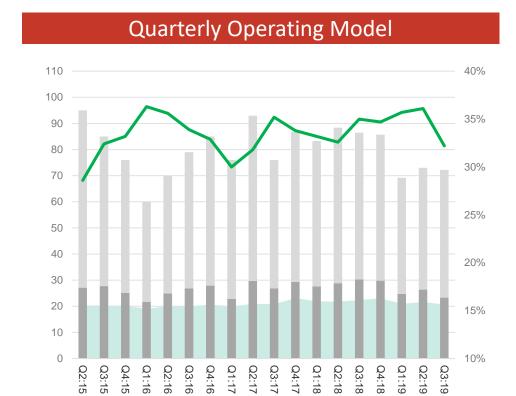
Characteristics of Operating Model

Controllable elements are well-controlled

- Deals accepted based on contribution to gross profit dollars
- Tendency toward trade-off between revenue and gross margin
- Stringent operating expense control sustained for 2+ years

Quarter-to-quarter fluctuations caused by factors difficult to control

- Changes in geographic mix of revenue based on significant variations in GM by region
- Local regulatory shifts and decisions causing fluctuations in decision making within the operators
- Timing of recognizing revenue for various elements of project –
 based on large customers dictating delivery timing of each element
- Currency fluctuations, interest rates, seasonality, orders lumpiness, changes in raw materials and components market



Note: Financial metrics are presented on a non-GAAP basis.

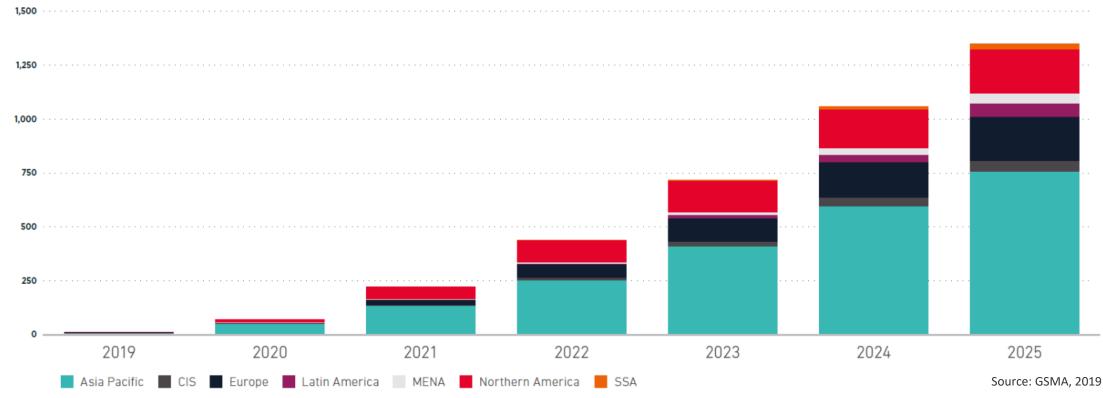




5G Evolution, Not a Single Event Gradual Development

5G connections will reach 1.4 billion worldwide by 2025





^{*} Asia Pacific includes China, which is served mainly by fiber and Chinese vendors

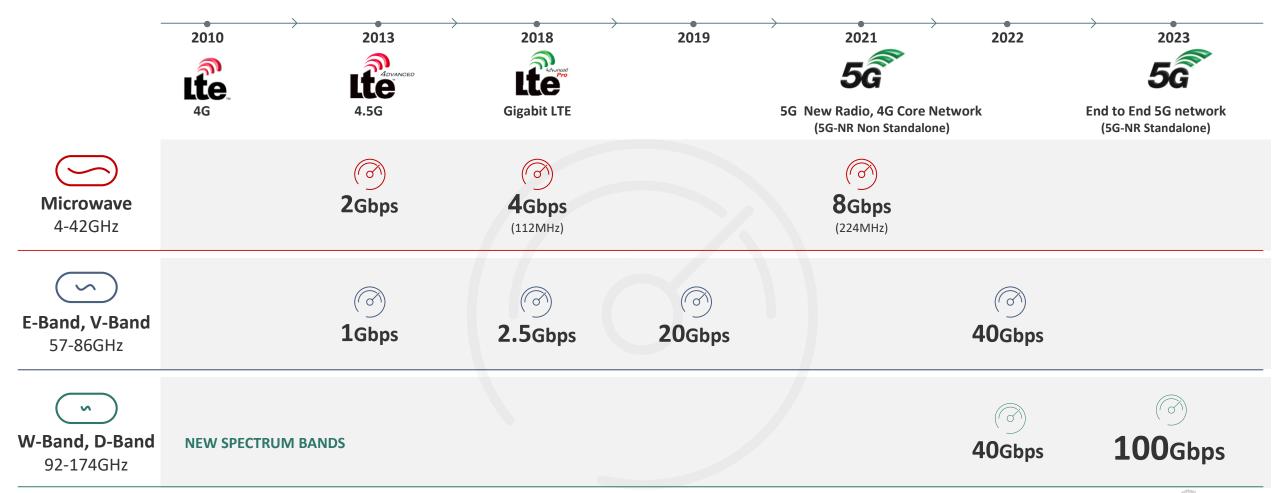


5G Amplifies & Diversifies Operator Wireless Backhaul Challenges

GOAL **Grow Profitability & Market Share** New revenue streams **Increase Competitiveness** via 5G services launch **NETWORK CHALLENGES** X100 **DEPLOY MORE SITES PROVIDE MORE ENABLE 5G USE-CASES DEAL WITH CAPACITY** MASS DEPLOYMENT CONSTRAINTS On-time: **On-budget:** Improve operational efficiencies Fast time to market



Ceragon Strategic Roadmap – Single Channel Capacity



- Multiples of each capacity listed above are achievable using Carrier-Aggregation technology to combine several channels into a single link
- Multi-band technology also allows operator to combine MW and mmW to achieve higher capacity with greater reliability

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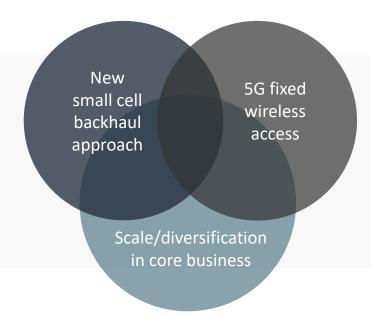


Formulating a Broader 5G Strategy

Continuously refining both offensive and defensive strategies

Technology Fit/Business Risk Analysis

- Relevance to core competencies
- Potential competitive advantage
- Market size and maturity
- Market growth potential



Value Creation/Financial Risk Analysis

- Time to revenue
- Magnitude of investment required
- Inherent profitability (gross margin)
- Impact on cash flow

Seeking best risk-adjusted opportunity to generate profitable growth





Investment Highlights

- ✓ Leader in premium segment of the market
- √ Time-to-market advantage with technologically-advanced IP-20 and IP-50 platforms
- ✓ Competitive strengths provide ability to be selective, obtain major share of highest-value opportunities
- **✓** Financial stability enables continuous innovation and design-to-cost investment
- ✓ Multiple new 5G design wins during 2019
- ✓ Positioned to capitalize on network evolution from 4G to 5G to generate long-term profitable growth

