



# CAPITALIZING ON THE 5G REVOLUTION

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## **INVESTMENT THESIS**

#### CERAGON IS AN EXCELLENT CHOICE FOR INVESTORS

- 5G era needs create vast opportunities for wireless transport solution vendors
- Ceragon is in the best position to capitalize on these opportunities
  - Strong reputation among Tier1 & Tier 2 operators around the globe
  - Healthy geographical diversification
- Solid strategy to increase market share and penetrate new markets and domains
  - Continue providing ahead-of-the-curve technology
  - Increase software and software led services
  - Increased focus on private networks and small operators primarily in North America

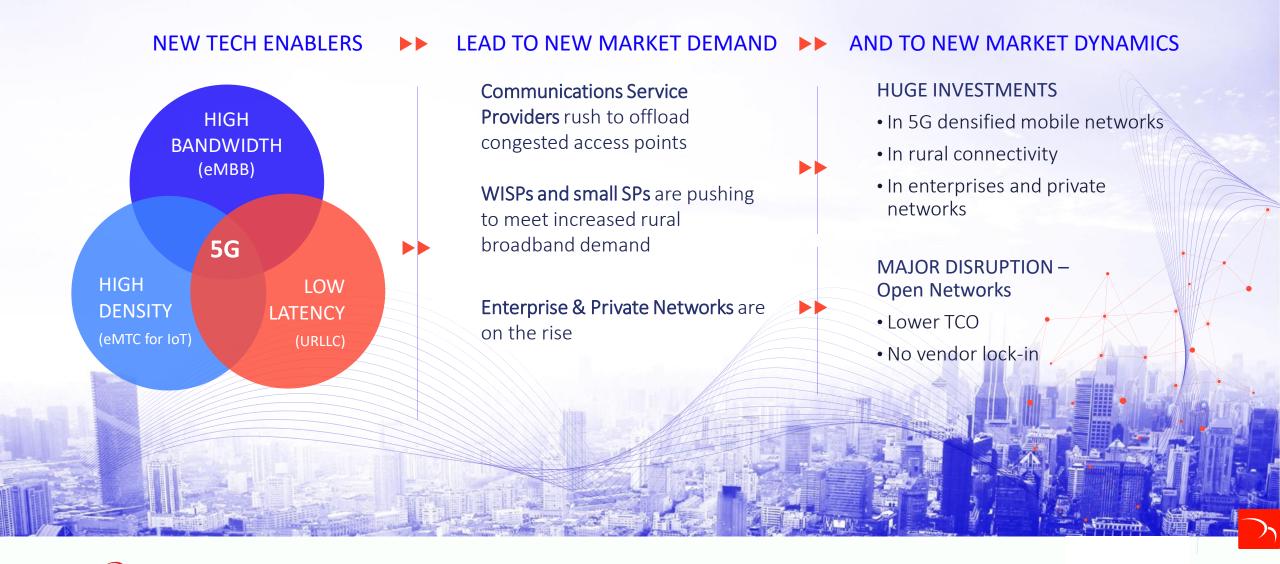
POISED FOR SIGNIFICANT PROFITABLE GROWTH







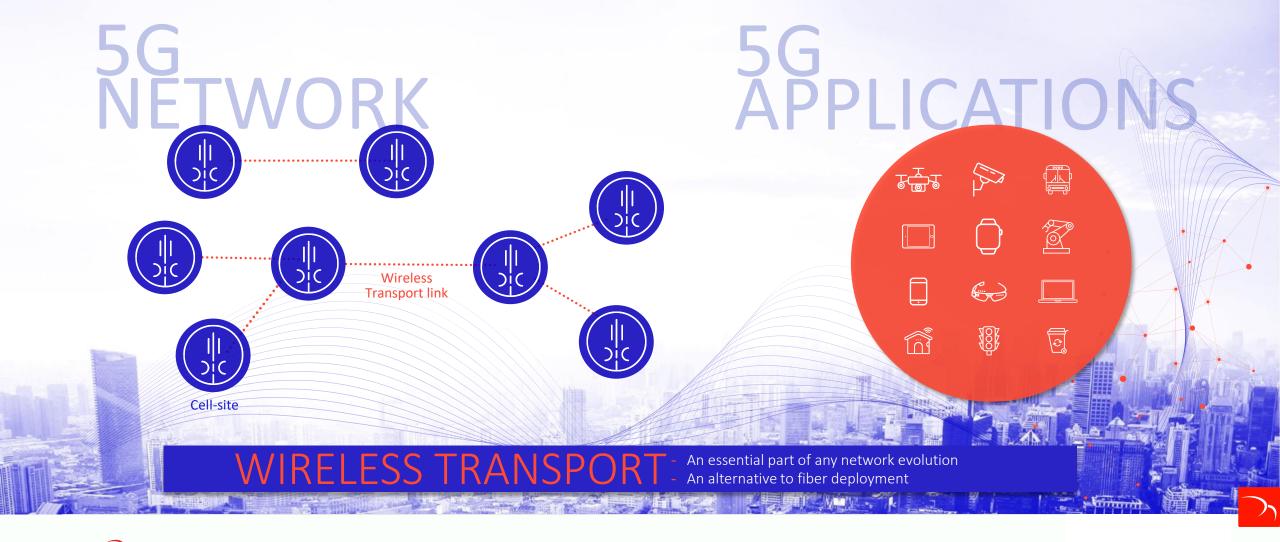
# 5G: A MASSIVE AND GROWING MARKET OPPORTUNITY





# **WIRELESS TRANSPORT**

A KEY AND CRITICAL TECHNOLOGY FOR 4G & 5G NETWORKS





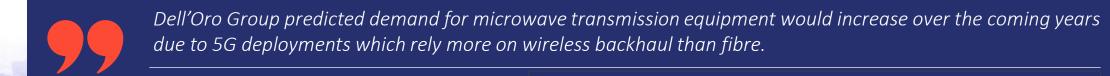
### 5G DEPLOYMENTS RELY MORE ON WIRELESS TRANSPORT THAN FIBER

# WIRELESS TRANSPORT IN 5G ENABLES

- Faster 5G rollout
- More cost-effective deployments (better TCO)

# OPEN NETWORKS IN WIRELESS TRANSPORT 5G

Create a chance for specialists like Ceragon to grow, at the expense of generalists

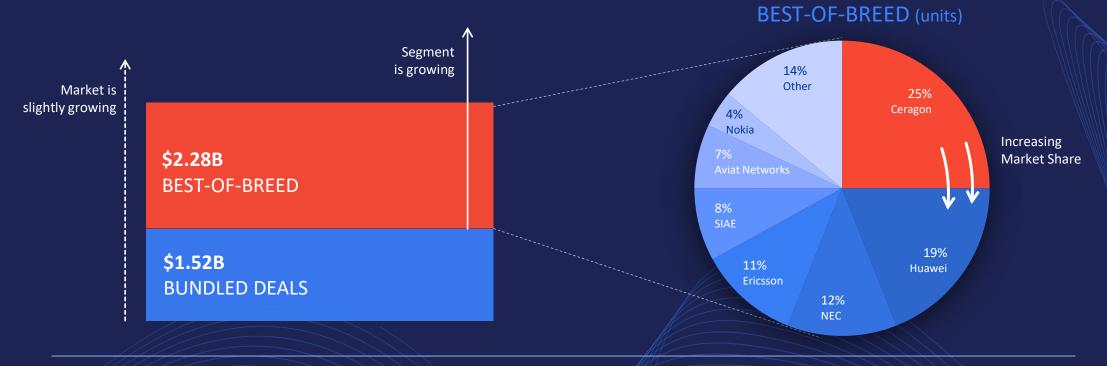


Source: GSMA, Mobile World Live, "Dell'Oro tips 5G to fuel wireless backhaul demand", July 27th, 2022



### CHANGING MARKET DYNAMICS

BEST-OF-BREED VERSUS BUNDLED-DEALS SEGMENT



Best-of-breed is the larger segment <sup>1</sup>

Open networks architecture expected to drive growth of best-of-breed segment

CERAGON IS LEVERAGING THIS TREND

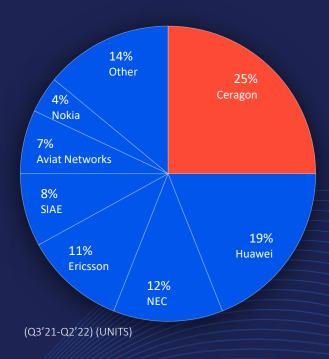




### **COMPANY SNAPSHOT - STRONG POSITION**

# INNOVATIVE MARKET LEADER 4G & 5G NETWORK ENABLER

Customers who choose based on value of technology select Ceragon

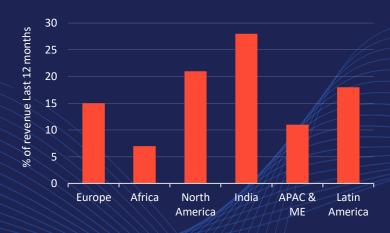


#### GLOBAL COMPANY

Significant activity in each region



#### **BALANCED REVENUE MIX**



#### COMPANY SNAPSHOT

| +2,000          | TOTAL CUSTOMERS                    |
|-----------------|------------------------------------|
| +1M             | SYSTEMS DEPLOYED                   |
| +140            | COUNTRIES WITH<br>SYSTEMS DEPLOYED |
| +460            | SERVICE PROVIDERS                  |
| 1,000+          | EMPLOYEES<br>GLOBALLY              |
| \$1.53 - \$3.34 | 52 WEEK LOW/HIGH <sup>(A)</sup>    |

(A) Source: Nasdaq as of 7/11/2022

Source: Ceragon estimates based on SkyLight Research. Sept 2022



# **CERAGON'S UNIQUE POSITION**

#### **CHIPSET**

UNIQUE MULTICORE TECHNOLOGY



#### 4G | DUAL CORE



#### 5G | OCTA CORE



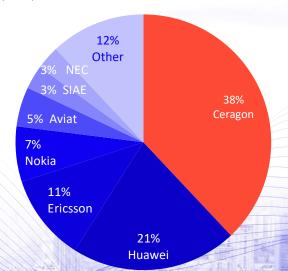
In-house technology enables Ceragon to offer 100Gbps, lowest latency, cost efficiency & be 'ahead of the curve' by 2-3 years

#### **SYSTEMS**

BEST-FIT FOR
OUTDOOR NETWORK SOLUTIONS

FAST **DEPLOYMENT** | SIMPLE **SITE ACQUISITION**ENABLER FOR **NETWORK DENSIFICATION**LOWEST **TCO** | FAST **TIME TO REVENUE** 

Q3'21-Q2'22 All-out-door unit market share(1)



Leading market share in the All-Outdoor market segment

#### **SOFTWARE**

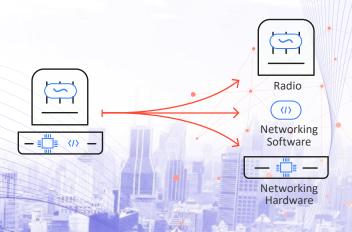
PIONEERING OPEN NETWORKS
IN THE WIRELESS TRANSPORT DOMAIN

LOW TOTAL **NETWORK INVESTMENT** 

FAST **NETWORK ROLLOUT** 

SIMPLER **NETWORK EVOLUTION** 

**NO VENDOR LOCK-IN** 



(1) Skylight Research from Feb 2022



# **CERAGON – IN A MARKET-READY POSITION**





# UNIQUE OPPORTUNITY FOR GROWTH IN THE US

FEDERAL FUNDING SUPPORTING CONNECTIVITY & 5G EXPANSION

#### **BROADBAND RELATED FUNDING**

\$77,300,000,000+

https://connectednation.org/current-broadband-funding/

#### **CURRENT FUNDING**

|   | Intrastructure Bill and American Jobs Act | \$65 billion for broadband                    |
|---|---|---|
|   | Affordable Connectivity Program           | \$14 billion available                        |
|   | ReConnect Loan and Grant Program          | \$700 million annually; \$1.3 billion in 2021 |
| 0 |   |   |

Coronavirus State and Local Fiscal Recovery Funds

A portion of \$350 billion available.

This is subject to state, county, and local leadership discretion

Coronavirus Capital Projects Fund (CCPF)

\$10 billion available

Build Back Better Regional Challenge

\$1 billion available



## ADJACENT MARKET PENETRATION OPPORTUNITY

#### **CELL SITE IP TRANSPORT**

5G requires densification & simplification, leading to increase in IP cell site devices

IP Mobile Transport Market \$3.5 Cell Site Devices Aggregation/Edge **Routers Switches** 

Cell site routers become disaggregated allowing the separation of functional components



Disaggregation enables faster adoption of 5G

**REDUCED COST** 

NO VENDOR LOCK-IN

**FASTER INNOVATION** 

**MARKET** Source: Dell'Oro Group SP Router 5-Year Forecast, January **OPPORTUNITY** 

\* Product only; with services the mark is >\$2B

Source: Dell'Oro Group SP Router 5-Year Forecast, January 2021



### **CERAGON STRATEGY**

Providers



Ceragon is very strong with Tier-1 & Tier-2 Service

# NEW CUSTOMERS NEW OPPORTUNITIES

Smaller Service Providers and Private Networks, where price pressure is lower, and margins are better

These customers also look for end-to-end solutions – Ceragon offers it through its ecosystem and services capabilities

Ceragon has placed special focus on North America

#### **NEW GROWTH ENGINES**

Recurring business with software-led Managed Services

Expanding into the new market of Disaggregated Cell Site Routers

New SW applications offering

**MARGINS** 







### **COMPANY SNAPSHOT**

#### STRONG BOOKINGS AND A VERY HEALTHY BACKLOG

India is the strongest region in terms of revenues; followed by North America

Strong bookings in North America (record quarter), India, and Latin America

In North America long standing large customer becomes the Company's second customer above 10% revenue, marking the first time a North American company achieves this milestone

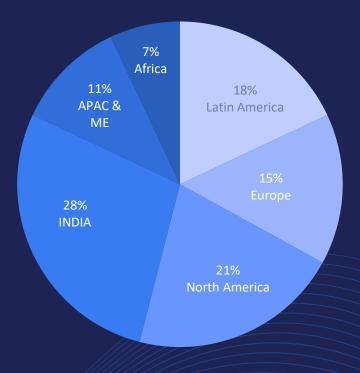


Non-GAAP Figures



# SELECTED FINANCIAL METRICS

Q4 2021 – Q3 2022 GEOGRAPHIC REVENUE MIX



BALANCE SHEET (\$ Millions)

| FINANCIAL<br>METRICS        | Q3'20  | Q4'20  | Q1′21  | Q2'21  | Q3′21  | Q4'21  | Q1′22   | Q2'22   | Q3′22   |
|-----------------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| Revenue                     | \$70.6 | \$74.0 | \$68.3 | \$68.6 | \$76.1 | \$77.8 | \$70.3  | \$70.7  | \$78.6  |
| Cash <sup>(1)</sup>         | \$29.2 | \$27.1 | \$33.0 | \$28.7 | \$27.2 | \$17.1 | \$25.0  | \$23.6  | \$26.0  |
| Debt                        | \$17.9 | \$6.0  | \$12.0 | \$11.0 | \$11.9 | \$14.8 | \$27.0  | \$31.9  | \$29.9  |
| Net Cash                    | \$11.3 | \$21.1 | \$21.0 | \$17.7 | \$15.3 | \$2.3  | \$(2.0) | \$(8.3) | \$(3.9) |
| Shareholder<br>Equity Ratio | 55%    | 54%    | 50%    | 50%    | 50%    | 47%    | 45%     | 43%     | 44%     |

(1) Cash includes cash equivalents. Source: Company filings.



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