



Applying the Science of Networking
Enabling Cybersafe, Rapid Deployment Networking for All IoT “Things” and Locations



Investor Presentation November 2024

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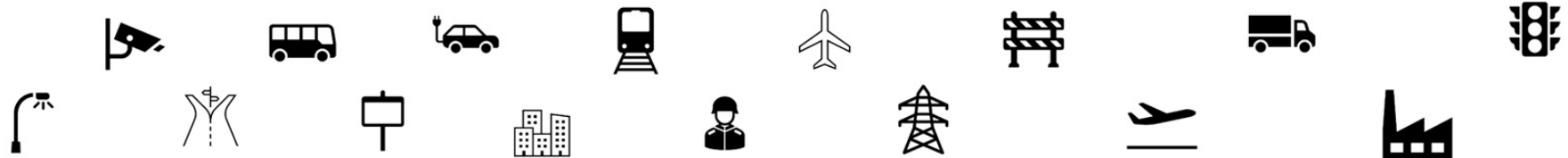
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Global IoT Market to Hit \$1.8 Trillion in 2028 at 24.5% CAGR ⁽¹⁾

Smart City Market at \$696 Billion by 2028 with CAGR of 29.3% ⁽²⁾



<u>Smart Traffic (ITS)</u>	<u>Smart City</u>	<u>Smart Rail</u>	<u>Military and Gov.</u>	<u>Power, Water, Oil</u>	<u>Industry, Education</u>
Lights	Parking	Signaling	Perimeter security	Substations	Robotics
Cameras	Security	Obstacle detect	Weapons control	Generators	Warehouse
Lane Management	Wi-Fi	Controls	Energy	Oil/gas flow	Access control
Signs	Garbage	Security	Radars	Perimeter security	Security
V2V	Transportation	Ticketing	Airports	Water plants	Parking

(1) Facts and Factors Jan. 2022

(2) Grand View Research May. 2021

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Actelis At a Glance – First Half of 2024

A Market Leader of Fiber-Grade, Cybersafe, Rapid Deployment IoT Networking

>300

Customers

*Cities, Rail,
Roads, Military*

>\$35M

**Value of Actelis' IoT
Previously Installed
Base**

In over 30 countries

30+

Global Patents

*+More on-going
new applications*

46%

**Year Over Year
Revenue Growth vs.
Q2-2023**

58%

**Gross Margin
Year-To-Date**

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IoT Communication Market at a Glance

>\$1.8T

*Global IoT Markets In 2028
Growing Exponentially
~100 Million Cameras/y alone*

>70%

Connectivity takes up most of IoT budget and time

Gigabit

Speed, low latency, low cost, resilient, cyber-safe networking needed

Fiber

Implementation is slow, expensive, hard to reach locations

Wireless

Is limited, not reliable, not resilient, not cyber-safe, costly

Copper/Coax

Can existing Billions of lines extend safe, Fiber-Grade networking overnight?

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IoT Connectivity Modernization Needs Growing Exponentially

Major efforts to Securely Connect Tens of Millions of Locations at High-Speed

- Billions of devices currently connected with copper cables
Historically low speed, low reliability, not secure
- New Fiber Optic cables are being installed
Reliable, fast, but expensive and slow to deploy
- Wireless is getting faster
Historically very low speed, lowest reliability and security

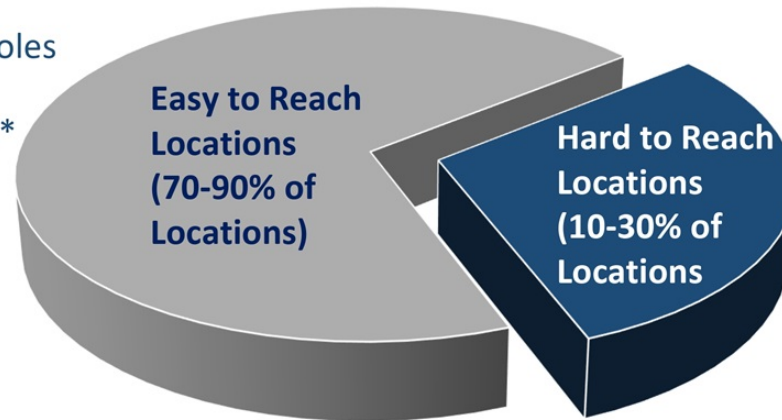


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IoT Networks are Mixed: Fiber/Copper/Coax

Example

- Fiber is laid on existing poles @ ~\$26K/Mile
- (work takes days/weeks)*



- New Fiber needs boring, trenching, permits, right-of-way @\$70K-\$400K/Mile
- (work takes months)*

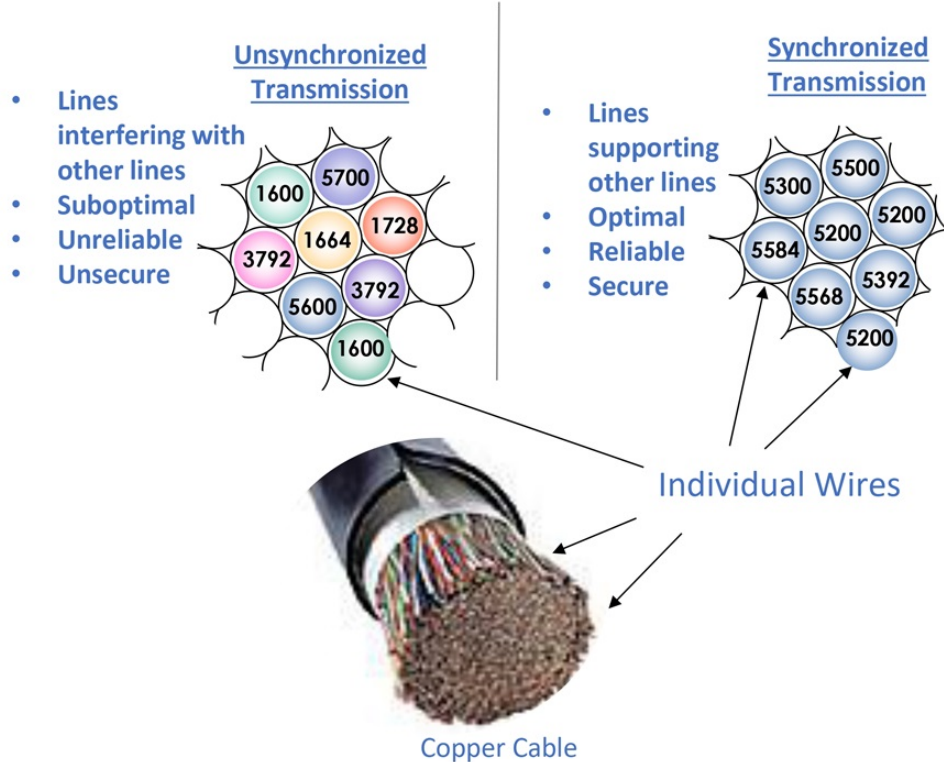
Actelis' Hybrid-Fiber Technology
Makes Existing Copper and Coax Perform at Fiber-Grade Level
All Media Types are Supported With Overnight Deployment
>50% Typical Time and Cost Savings

(*) – Analysis by Columbia Telecommunications Corporation

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MetaLIGHT Unique Signal Processing and Encoding Software

Combining 100X Wire⁽⁵⁾ Performance Boost with Triple-Shield Security



- Optimal synchronization of multi-line signals
- Elimination of interference to boost speed
- Data line coding for resilience, security ⁽¹⁾
- Multi-line scrambling for low latency, security ⁽²⁾
- 256-bit encryption of transmission ⁽³⁾
- Multi-line modulation for up to 10Gbps ⁽⁴⁾
- Spectrally compliant reach extenders to 100Km
- Remote powering + Data to 4G/5G base stations

(1), (2), (3) – Components of Triple Shield Protection
 (4) – 10Gbps available in 2023
 (5) – Vs. single wire performance in cable

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Actelis' MetaLIGHT Building Blocks Enable Seamless Hybrid Networks

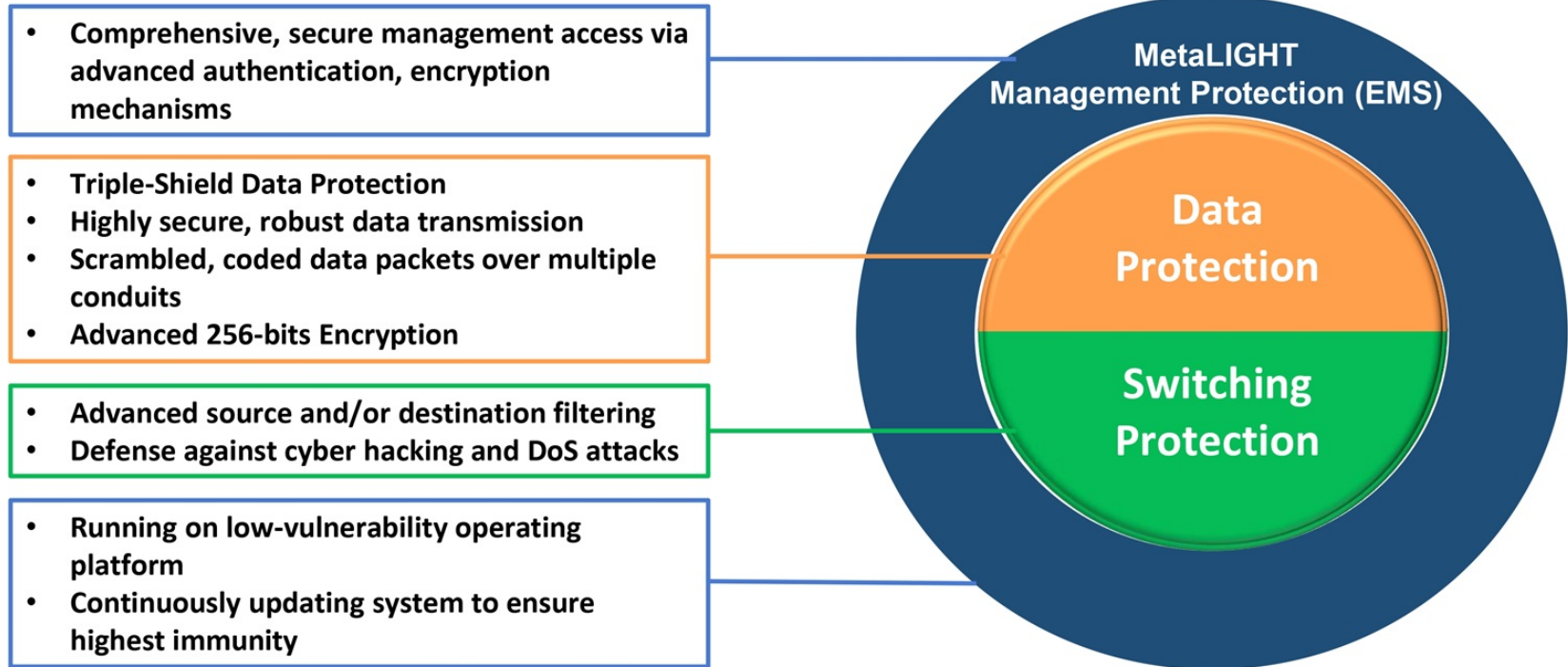
- **CONNECTIVITY:** High Performance, mix of Fiber, Copper, 5G
- **CYBER SAFETY:** Triple Shield Data Protection; and 360° System Security Software
- **UBIQUITY:** Supports all cameras, sensors, meters on new IP or legacy networks
- **HIGH DENSITY:** Packs up to 11 network functions in one device; saving space, power and cost
- **REMOTE POWERING Over Copper:** For cameras, sensors, 5G base stations, saving power connection cost
- **LOW-TOUCH NETWORK MANAGEMENT SW:** Automated Configuration, Zero touch provisioning



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MetaLIGHT Software 360° System Level Security

Approved for Deployment by US DoD



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Multi-Dwelling Units – Starving For Gigabit, Fiber-Grade Connectivity

- ❑ 23 million apartment buildings in the US, most >25 years old
- ❑ Need high-speed internet, too expensive and time consuming to put fiber
- ❑ GigaLine 900 enables Gigabit, Fiber-Grade connectivity, no fiber required in building

Up to
10X
cost
savings

Broadband
deployed in
just hours

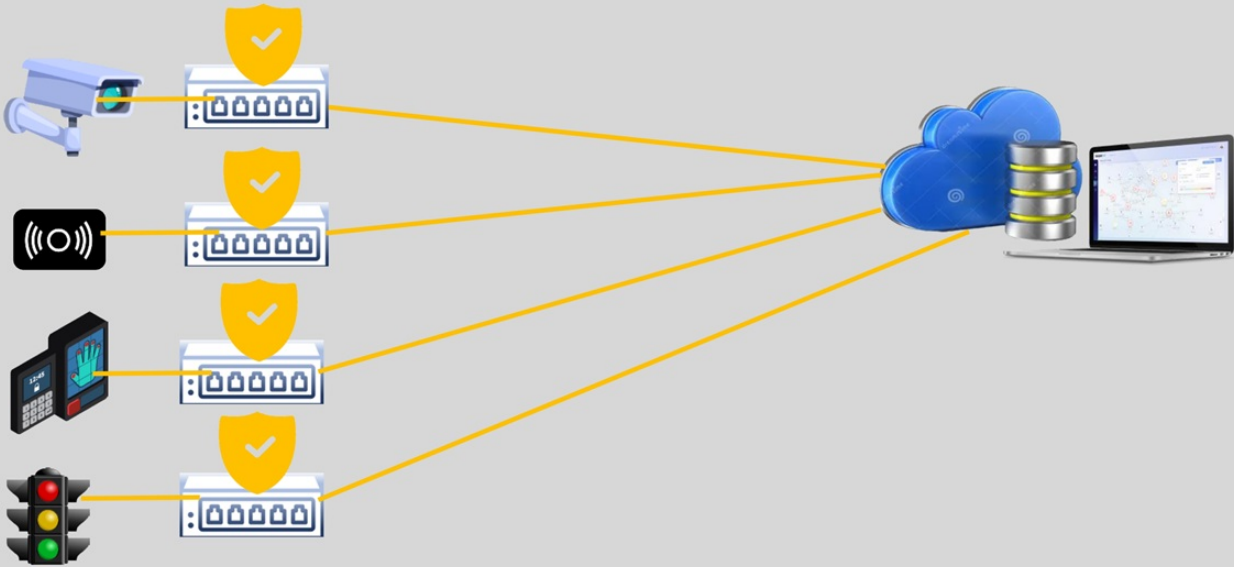
Ultra-Green
low power
solution



Cyber-Aware-Networking: SaaS Protection Through the Network Itself

AI-Powered Cyber Protection and Operational Continuity for IoT Edge Devices

Leveraging the Presence of the Network to Sense and Stop Issues at Network Edge



Detailed, continuous visibility of IoT devices' topology and health at network end-points



Cyber attack & anomaly detection



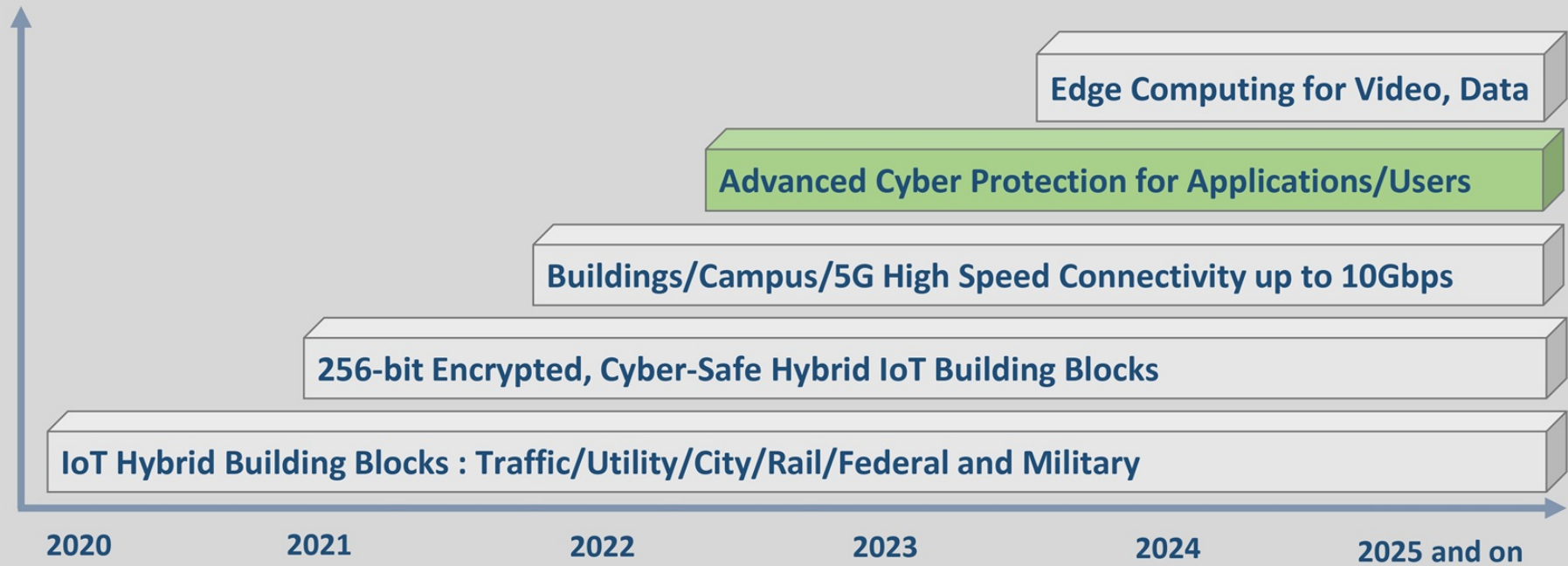
Option for auto-correct of vulnerabilities



Documentation, performance tracking and compliance reports

Multi-Year Solution Strategy

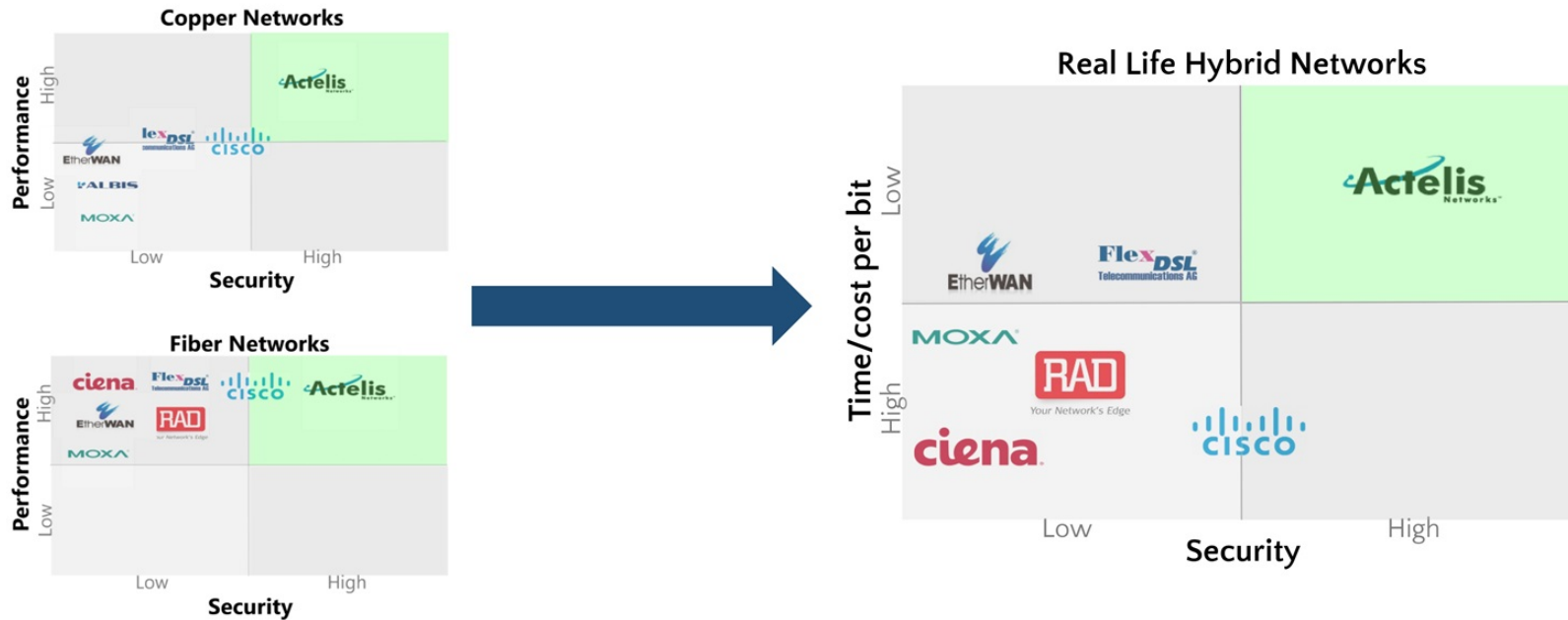
Be Everywhere, then Climb Up the Food Chain



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Our Real-Life Solutions Offer Significant Competitive Advantages

Leading Unique Real-Life Hybrid Offering



Actelis' solutions offer significant competitive advantages in performance and security layers in both Fiber and copper. When combined into real-life hybrid copper-fiber networks, they offer higher security, faster deployment and lower cost.

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Customers that Already Trust Actelis' Solutions

SMART GRID



SMART CAMPUS



SMART TRANSPORTATION



SMART CITY



Gov, MILITARY & POLICE



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Recent News and featured articles



Actelis

New Orders for Cyber-Hardened Network Solutions for Two Major German Utility Providers



Actelis

Actelis Receives Over \$150,000 in New Military Orders for New Cyber-Hardened Networking Solutions



Actelis

Actelis Networks Receives \$200,000 Order to Provide Fast Upgrade & Modernization



Actelis

Actelis Receives \$260,000 Order for Major US County Traffic System Modernization



Actelis

Nearly \$1.5 Million Software and Service Contract Renewal From Major Customer in North America



Actelis

Actelis Receives \$2.3 Million Order for Immediate Delivery of New Hybrid-Fiber Intelligent Networking Solution For Washington D.C.'s Department of Transportation



Actelis

New Order from Major German Municipality

Modernization of Secure Critical Infrastructure IoT Network



Actelis

Italian National Transportation Infrastructure Project

\$300,000 order received from new local channel partner



GigaLine 900 Draws Strong Global Industry Interest

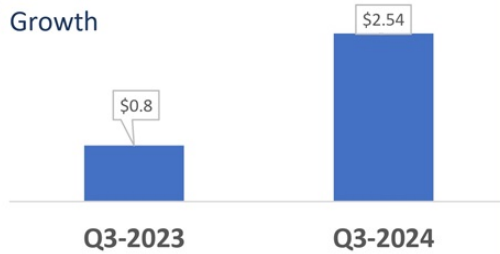
Unique, Ultra Low-Power Solution for Instant Gigabit Services in MDUs

Actelis

Financial Results Highlights

Quarterly Revenues

200% YoY
Growth



First Nine Months Revenues

46% YoY
Growth



Gross Margin

	Q3 YTD 2023	Q3 YTD 2024	
\$M	\$1.5	\$3.9	+152%
%	34%	58%	

Operating Expenses

	Q3 YTD 2023	Q3 YTD 2024	
\$M	\$7.3	\$6.0	(17%)

Net Loss

Q3-2023	Q3-2024	
(\$0.9)	(\$0.5)	(41%)
Q3 YTD 2023	Q3 YTD 2024	
(\$4.4)	(\$2.6)	(41%)

EBITDA

Q3-2023	Q3-2024	
(\$1.8)	(\$0.2)	(87%)
Q3 YTD 2023	Q3 YTD 2024	
(\$4.6)	(\$2.0)	(56%)

Liquidity:

- \$5 million raised in June
- Long-term debt repaid
- Shareholder Equity back to compliance
- Shelf Prospectus effective, ATM facility in place

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