Bringing 5G wireless to the world. Be a part of the revolution.

WWW.TERAPHYSICS.COM
TERAPHYSICS
Who We Are And What We Do

TERAPHYSICS has developed

5G ENABLING TECHNOLOGY

that will lead to 150X faster than today’s wireless technology.
TERAPHYSICS
Who We Are And What We Do

TERAPHYSICS will go to market as MMILINK™
THE PROBLEM WITH 4G

Limitations With 4G Is Driving Demand For 5G

INTERNET LAG

VIDEO ISSUES

DROPPED CALLS
THE OPPORTUNITY

Wireless Traffic Is Growing Exponentially Year Over Year

Explosion of **connected devices** and **Internet of Things**

**mmLink™** products will meet 5G network demand well beyond 2030 explosion of connected devices.

Cellphones and smart devices grew from 300 million in 1998 to 7 billion in 2015, a CAGR of 20%.

Over 300% Growth in 2 Years

Source: Strategy Analytics, 2016
THE OPPORTUNITY

mmLink™ Provides Fiber-Like Connectivity At 1/5 The Cost

Fiber installation is costly. 19 million miles laid in the U.S. in 2014 at $100K-$200K per mile.

mmLink™ will satisfy demand where fiber is not feasible.

mmLink™ stratospheric connectivity—drones, balloons and satellites.
THE PRODUCT

**mmLink™ Data Transmission Rate Is Up to 150x faster.**

**mmLink™** 5G platform can deliver enterprise fiber data rates up to 5 miles.

**Lowest cost of data** delivery and installation.

**U.S. patents granted to Teraphysics** for helical structured vacuum electron sources and amplifiers, and the associated nano materials manufacturing process.
MORE THAN 5G
A New Technology That Will Innovate In Several Verticals.

MEDICAL
- Cancer Detection
- Burn Therapy
- Wound Healing

FOOD SAFETY
- Detecting foreign bodies in processed foods
  - Biological or Bacterial Contamination
  - Plant Contamination

STRUCTURAL
- Imaging and Spectroscopic Detection
- Non-Invasive Structure Testing for Bridges and Other Structures
SALES & MARKETING

Targeted Sales Strategy In Smart Markets And Strategic Partnerships

Targeted Markets

Businesses - Smart cities, secure personal networks, data centers.
Locations - Underserved geographic locations.
Applications - High speed trading.

Stratospheric Platforms

Google, Facebook, SpaceX, OneWeb, Samsung.

Carrier Initiatives

Micro cells and hot spots.
TEAM

Our Inventions Led To Development Contracts With NASA (JPL), DARPA & The Air Force Research Laboratories

Dr. James Dayton, Jr
CTO & Co-Founder
Inventor of mmLINK™, Director of Vacuum Electronics at NASA, PhD University of Illinois.

Dr. Gerald Mearini, PhD
President & Co-Founder
Pioneered chemical vapor deposited diamond-based vacuum electronic devices; worked at NASA; PhD.

Dr. Carol Kory
Vice President, Technology Development
Established the accurate modeling of helical traveling wave tubes and is a world renowned expert in 3D electromagnetic codes; worked at NASA
## COMPETITION

<table>
<thead>
<tr>
<th>COMPANIES</th>
<th>TECHNOLOGY</th>
<th>COMMERCIALY VIABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>mmLink™</td>
<td>Vacuum Electron Devices</td>
<td>YES</td>
</tr>
<tr>
<td>Fujitsu</td>
<td>Solid State Amplifiers</td>
<td>NO</td>
</tr>
<tr>
<td>Bridgewave</td>
<td>Solid State Amplifiers</td>
<td>NO</td>
</tr>
<tr>
<td>Militech</td>
<td>Solid State Amplifiers</td>
<td>NO</td>
</tr>
<tr>
<td>GigOptix</td>
<td>Solid State Amplifiers</td>
<td>NO</td>
</tr>
<tr>
<td>HXI</td>
<td>Solid State Amplifiers</td>
<td>NO</td>
</tr>
</tbody>
</table>
**FORECAST**

**5G Projections**

mmLink’s™ revolutionary technology will penetrate and expand dramatically as next generation 5G wireless emerges. As cellular service providers run out of 4G spectrum major wireless equipment suppliers will be driven to adopt mmLink’s™ technology.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>REVENUE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>$2M</td>
<td>100</td>
</tr>
<tr>
<td>2019</td>
<td>$85M</td>
<td>5,000</td>
</tr>
<tr>
<td>2020</td>
<td>$300M</td>
<td>20,000</td>
</tr>
<tr>
<td>2021</td>
<td>$540M</td>
<td>45,000</td>
</tr>
<tr>
<td>2022</td>
<td>$900M</td>
<td>90,000</td>
</tr>
<tr>
<td>2023</td>
<td>$1,200B</td>
<td>150,000</td>
</tr>
</tbody>
</table>
## USE OF FUNDS

<table>
<thead>
<tr>
<th>COMPANIES</th>
<th>TECHNOLOGY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>mmLink™ Field Demonstration Network</strong></td>
<td>$3,000,000</td>
</tr>
<tr>
<td>Fabrication Facility</td>
<td>$9,500,000</td>
</tr>
<tr>
<td>Acquisition of Manufacturing Capacity</td>
<td>$7,500,000</td>
</tr>
<tr>
<td>Wireless Market Development</td>
<td>$11,250,000</td>
</tr>
<tr>
<td>Stratospheric Platform Development</td>
<td>$10,500,000</td>
</tr>
<tr>
<td>Global Patent Strategy / Working Capital</td>
<td>$3,250,000</td>
</tr>
<tr>
<td>Placement Fees</td>
<td>$5,000,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$50,000,000</strong></td>
</tr>
</tbody>
</table>
EXIT STRATEGIES

- Joint ventures with wireless system providers.
- Licensing agreements with strategic partners.
- Products sales through partners distributors & resellers.
- Right sales to equipment suppliers of major wireless carriers.
Investment Questions, Contact:

Lou Fisi  
Chairman & CEO

Donald Battista  
Chief Business & Marketing Strategy Director

*To make an investment in any deal currently testing the waters on ASMX available to the general public, the Company must first register and qualify the offering with both State and Federal regulators. Prior to doing so, the Company is “testing the waters” to gauge market demand from potential investors. No money or other consideration is being solicited, and if sent in response, it will not be accepted. No sales of the securities will be made or commitment to purchase accepted until qualification of the offering statement by the Securities and Exchange Commission and approval of any other required government or regulatory agency. An indication of interest made by a prospective investor is non-binding and involves no obligation or commitment of any kind. No offer of securities will be made without a registration statement.