

AEAPONYX Inc.

33 Prince St, Suite 200A
 Montreal, QC, Canada H3C 2M7
www.aeponyx.com

Philippe Babin, pbabin@aeponyx.com
 Phone: 514 360-7743

Management Team

Experience

Philippe Babin, CEO	25 yrs.
Francois Ménard, CTO	24 yrs.
Jean Thibodeau, VP Operations	25 yrs.
Damien Michel, VP Engineering	23 yrs.

Company Profile

- **Technology:** Silicon Photonics with MEMS
- **Patents:** 11 (issued) + 15 (pending)
- **Market:** Green Telecom & Datacom
- **Business Model:** Sell chips to OEMs
- **Next Funding stage:** B-Series
- **Funding to date:** USD 17 M
- **Capital seeking:** USD 15 M (Q1 2021)
- **Employees:** 34 + 15 University HQP

Customer Problems / Market Opportunities

Exponential growth of Internet traffic = need for new fiber optic chips with higher capacity, lower costs and better power efficiency:

1. Service providers, like Verizon, need millions of transceivers per year of NG-PON2 (Next Gen Passive Optical Network):
2. Data centers and 5G mobile operators need Optical Circuit Switching (OCS):
3. Quantum computing requires advanced Silicon Nitride optical switches

Goals

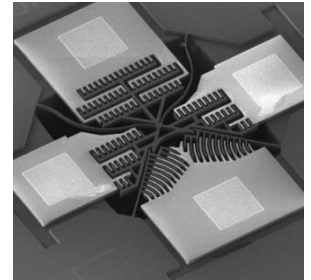
- Become a leader in Silicon Photonics for energy efficient telecom & datacom
- Obtain product qualification in 2021 and begin production in 2022.
- Exceed \$ 100 M /year revenues by 2024

Summary

A fabless micro-optical switch leader, designing and marketing chips for fiber optic access to the cloud and for quantum computing.

The technology combines integrated optics Micro-Electro-Mechanical Systems (MEMS) with Silicon Photonics along with cost-efficient hybrid integration of optical fibers, lasers, photodetectors, etc..

AEAPONYX chips are targeted at low-cost tunable transceivers and optical switches for telecom, datacom and quantum computing.



Product

The technology platform enables dozens of applications, but as priority:

- Tunable optical module for Next Generation Passive Optical Networks (**NG-PON2**)
- 8x8 optical circuit switch (**OCS**) chip for 5G mobile networks and photonic computing

Markets in China

AEAPONYX is working on the first products for the North American market but wish to explore additional products, such as WDM-PON transceivers for 5G for the Chinese market.

AEAPONYX is also interested in exploring the quantum photonics space, mainly for quantum processors, with partners in China.

Partners in China

Our targeted partners are OEM in the photonics space interested in collaborative development of product, including Silicon Nitride Photonics packaging.

AEAPONYX is also interested in potential joint ventures or investments with strategic players in the photonics packaging world.

AEAPONYX is also interested in R&D collaborative works in the quantum photonics space

Technology

AEAPONYX has 11 patents with 15 others pending. While AEAPONYX is fabless, it fully owns and controls the process flow and process development kit in two existing foundries. The AEAPONYX process flow could be ported to MEMS foundries in China, upon completing the the ongoing final steps of qualification and production readiness.

Financing plan

AEAPONYX closed, to date, a total of USD 9 million in equity to date with along with USD 8 millions in non dilutive funding, to develop the technology. This next financing round of USD 15M Series B will enable the company to reach production.