

XIPHERA

PEACE OF MIND IN A DANGEROUS WORLD



CYBERSECURITYTM
MADE IN EUROPE

www.xiphera.com

sales@xiphera.com



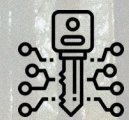
About Xiphera



Finnish-founded
in 2017,
European-owned



Secure and optimised
cryptographic IP
cores for SoCs and
FPGAs



Hardware-based
security solutions with
proven **cryptographic**
algorithms



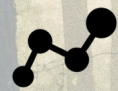
Largest dedicated
cryptographic IP provider
in the world with wide
portfolio of
cryptographic IP



Uniform codebase
across SoC and FPGA
designs



Entire product line
designed fully in-house



Committed **roadmap** to
evolving cryptographic
standards



In collaboration with

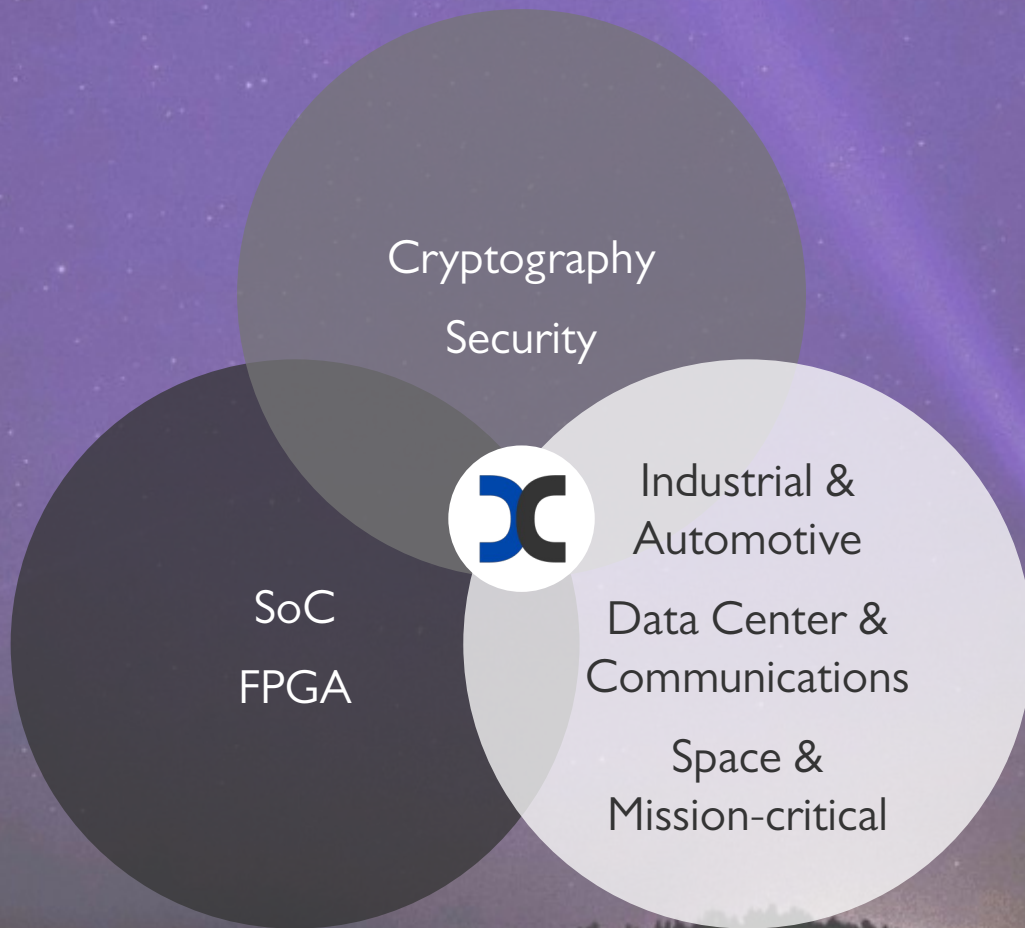


...and many others.

Founded
2017

Over
30
IP cores

Customers in
4
continents





Espoo, Finland
HQ + R&D

Europe

Japan

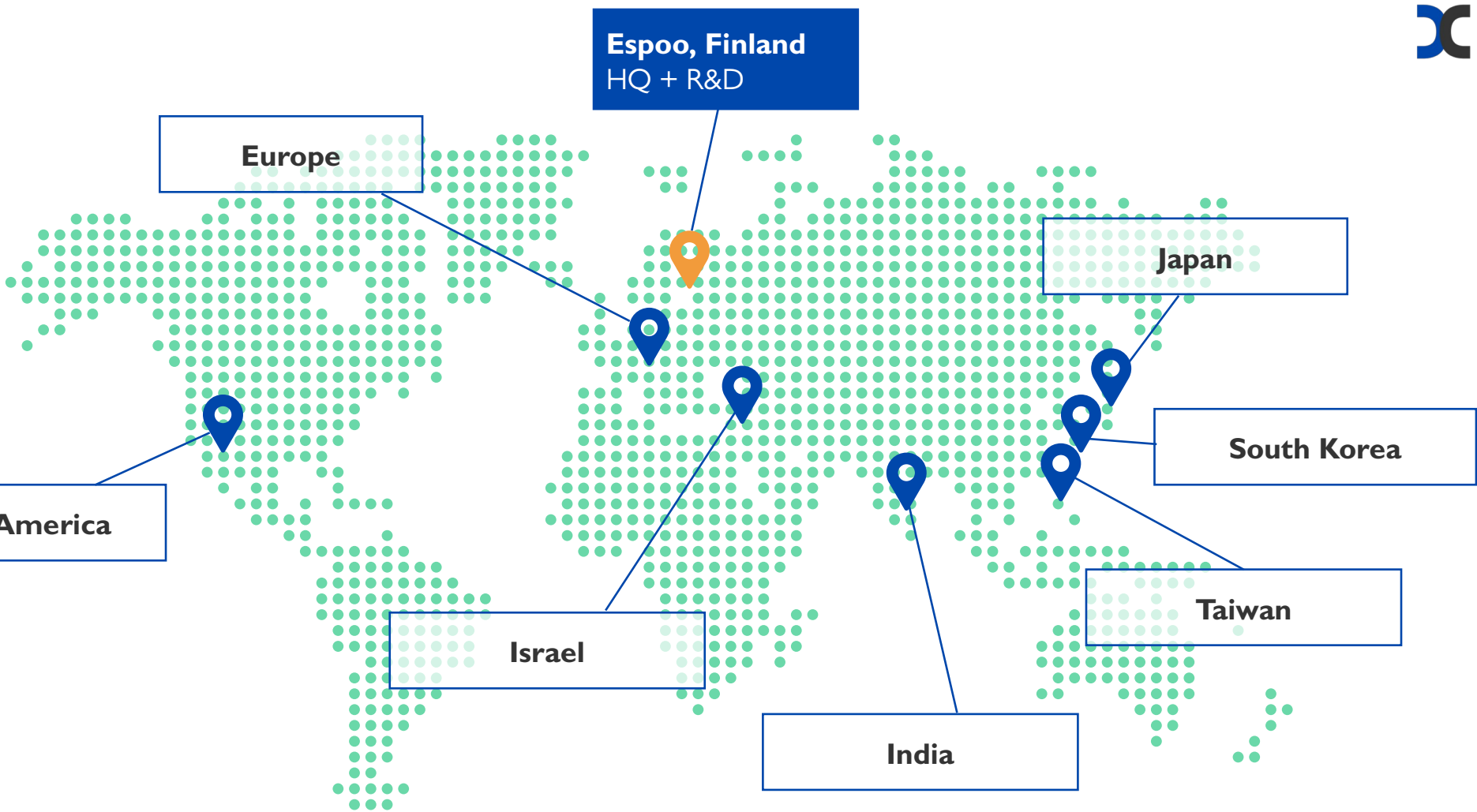
South Korea

North America


Taiwan

Israel

India



The Time Is Now



SW-based
information
security is highly
vulnerable




Digital
sovereignty and
resilience



Confidential
Computing



Secured AI



PQC typhoon
and quantum
threat

Software vs Hardware

Security software

3rd party libraries

Toolchain

Operating System

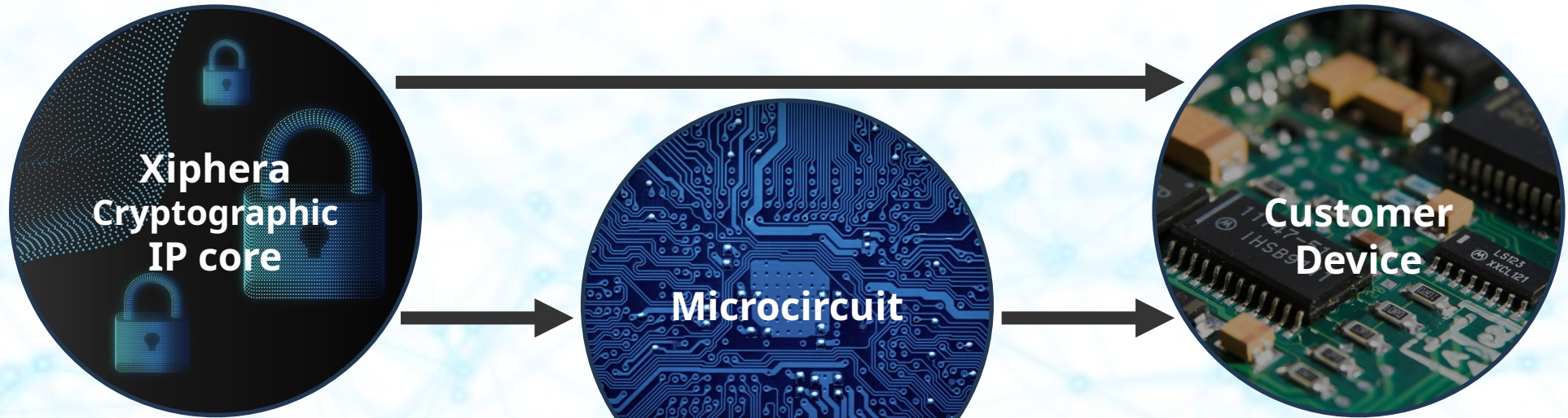
Drivers

Processor

Application

SoC/FPGA
cryptography and keys

Intellectual Property (IP) Core



Portfolio of **30+ off-the-shelf IP cores** to implement cryptographic algorithms and protocols on microcircuits, including **Post-Quantum Cryptography**

- Custom-designed SoCs
- FPGA
 - Altera
 - AMD
 - Lattice Semiconductor
 - Microchip

IloT Device
Encryption Device/Accelerator
Satellite comms board
System on Chip
Secure Boot solution
Hardware Security Module...

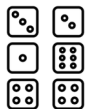
Customer Challenges



Data confidentiality, integrity & authenticity



The Quantum Computer Threat



Achieve true randomness – Random number generation



Network communications issues such as unauthorised access & data breaches



Design or cryptographic expertise

Xiphera Solutions

Hardware-based security

Wide portfolio of cryptographic primitives from hash algorithms to encryption algorithms



xQlave® PQC

Our in-house solution for the upcoming quantum threat



TRNG & PRNG

for high-quality random numbers



MACsec, IPsec & TLS 1.3

Hardware-based implementations enable better performance and increased security level



Consulting Services

by our in-house security experts



Cryptographic Building Blocks for Secure Systems

Secure systems are built by combining classical and post-quantum cryptography, including symmetric and asymmetric algorithms, key management, and secure communication protocols.

Xiphera provides all essential cryptographic building blocks as pure hardware IP.



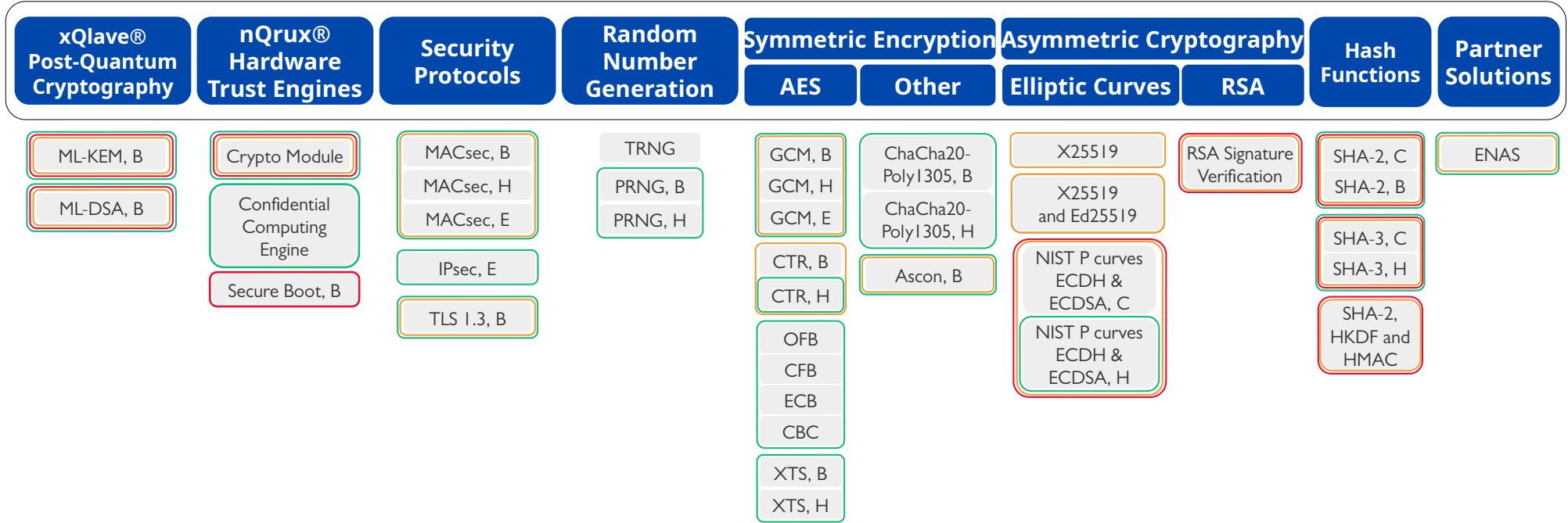
**Classical
Cryptography**

**Hybrid
Solutions**



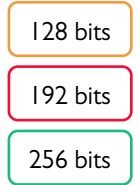
**Post-quantum
Cryptography**

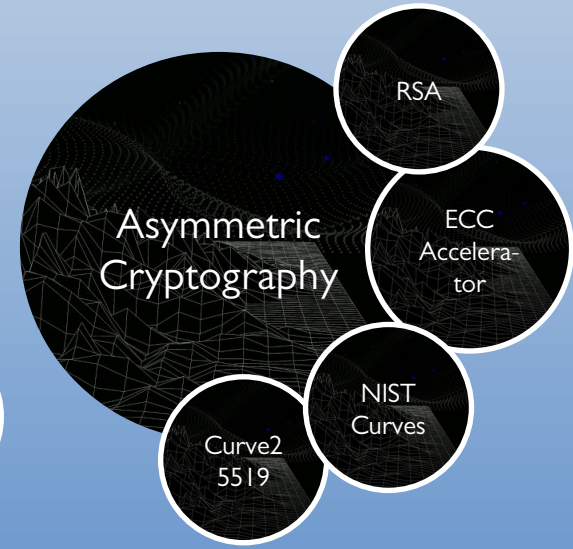
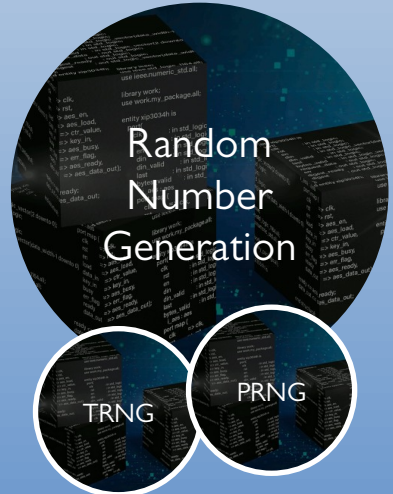
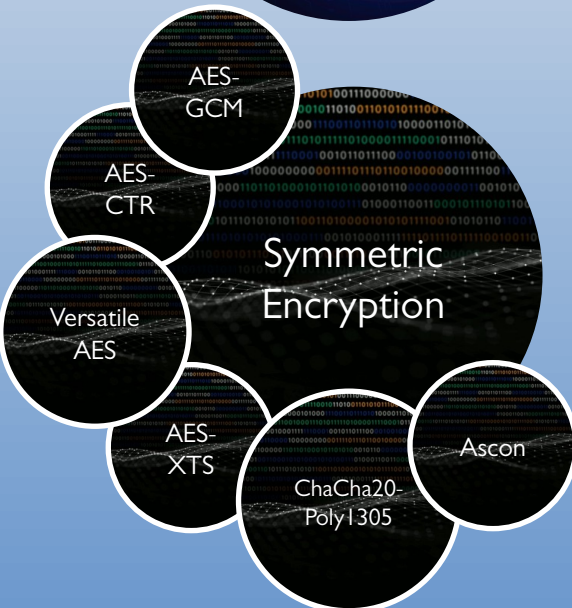
Xiphera Portfolio



Security levels

C = Compact
B = Balanced
H = High-speed
E = Extreme-speed





Technology Partners

AMD Adaptive Computing Partner
ELITE CERTIFIED

altera™ solution acceleration partner

LATTICE SEMICONDUCTOR
PARTNER NETWORK

mle
missing link electronics

FPGA
MICROCHIP
DESIGN PARTNER

BittWare
a **molex** company

QuickLogic

CRYPTO QUANTIQUE

Why Xiphera?



Compact / high-performance solutions



Agile and nimble team



Fully hardware-based implementations



Roadmap to evolving cryptographic applications



In-house designed products & cryptographic expertise



Full Portfolio of Traditional and Post-Quantum Cryptography

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Xiphera Ltd.

www.xiphera.com

sales@xiphera.com