



赛灵思工业物联网研讨会

XILINX IIoT SEMINAR

Xilinx SoCs and ACAPs:

Scalable IIoT Platforms Across Edge and Cloud

Maria Tang

Xilinx Sales VP of Great China

May 2019

Great Thanks to Xilinx Dear Friends

ALINX®

芯驿电子科技（上海）有限公司

HIKVISION

MOXA®

RealEct 西安瑞日电子发展有限公司
Xi'an Realect Electronic Development Co.,Ltd

上海站

MYiR 米尔科技
Make Your Idea Real

正运动
ZMOTION

PS-Micro
精 锋 微 控



CORECAM®

深圳站

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北京盟通科技有限公司
Beijing Motrotech Technology Co.,Ltd

北京站

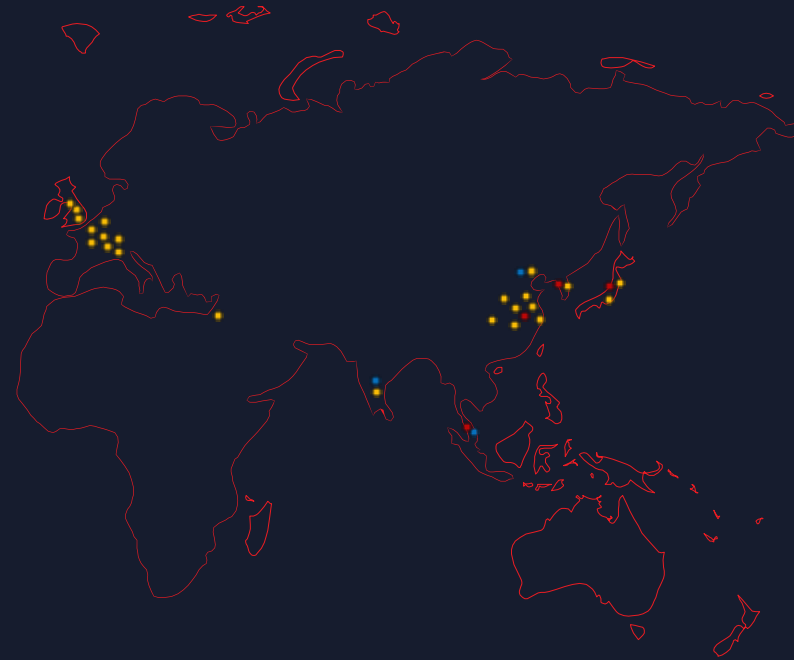
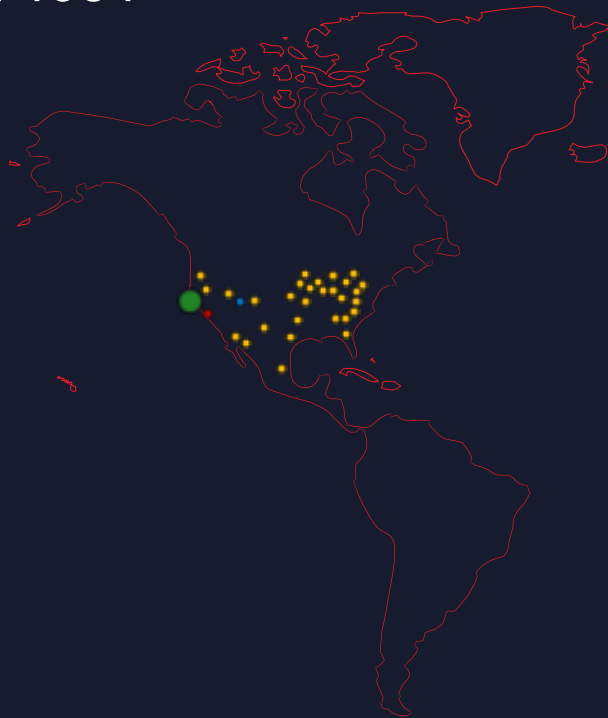
AVNET®
Reach Further™

COMTECH 科通

XILINX

We Are Xilinx

Founded 1984



- Headquarters
- Research and Development
- Sales and Support



\$3.06B

Revenue



4,400+

Employees Worldwide



20K+

Customers



60+

Industry Firsts



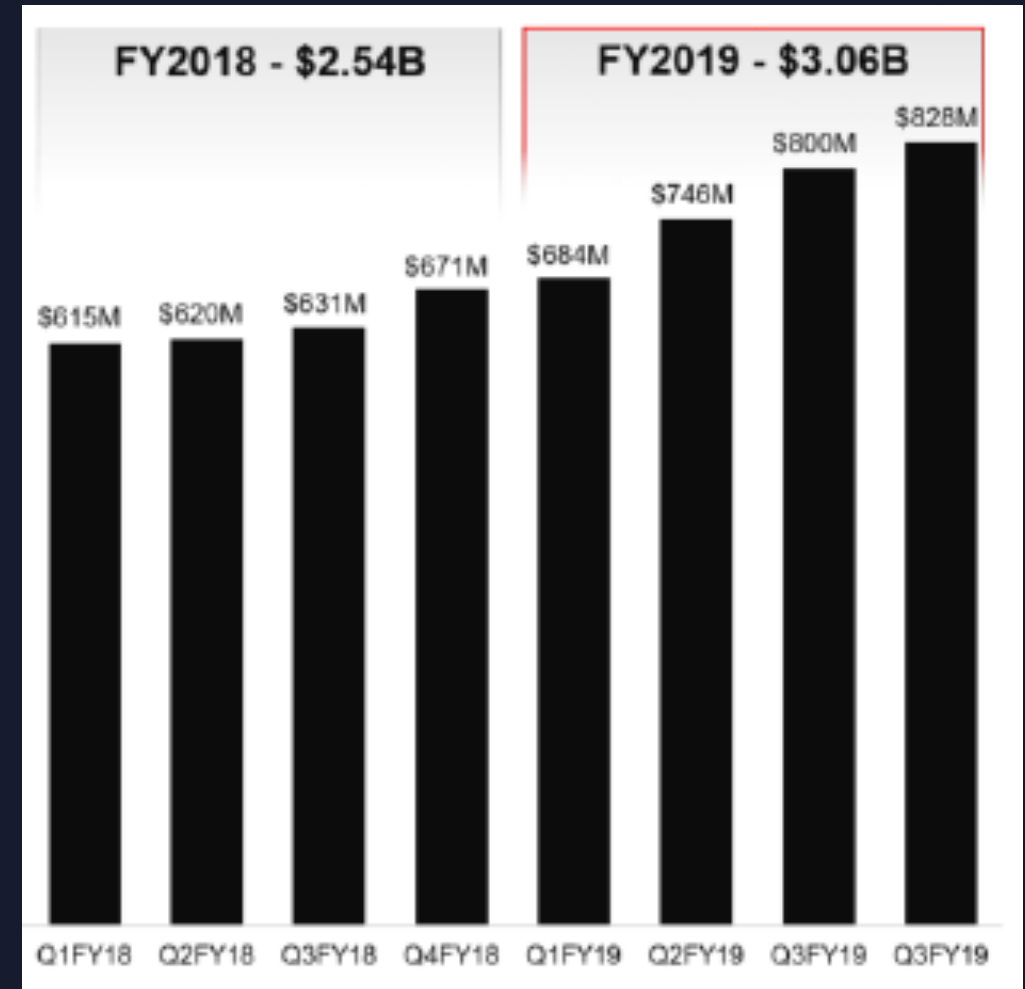
4,000+

Patents

Corporate Balance and Strength

- > \$3.06 billion revenue in FY19
- > 24% annual growth
- > Strong profits and balance sheet
- > Diverse customer base of 20,000+
- > Geographic balance
 - Asia – 47%
 - North America – 27%
 - Europe – 18%
 - Japan – 8%
- > Market balance
 - Data Center, Test Measurement – 18%
 - Automotive, Broadcast, Consumer – 14%
 - Communications – 41%
 - Industrial, Aerospace & Defense – 27%

Xilinx Revenue



Today's Xilinx IoT Portfolio

SPARTAN⁷
ARTIX⁷

Cost-Optimized FPGAs

ZYNQ[™]

ZYNQ[™]
UltraSCALE⁺

ARM-based SoCs and MPSoCs

VIVADO[™]

State-of-the-Art Tools for Design



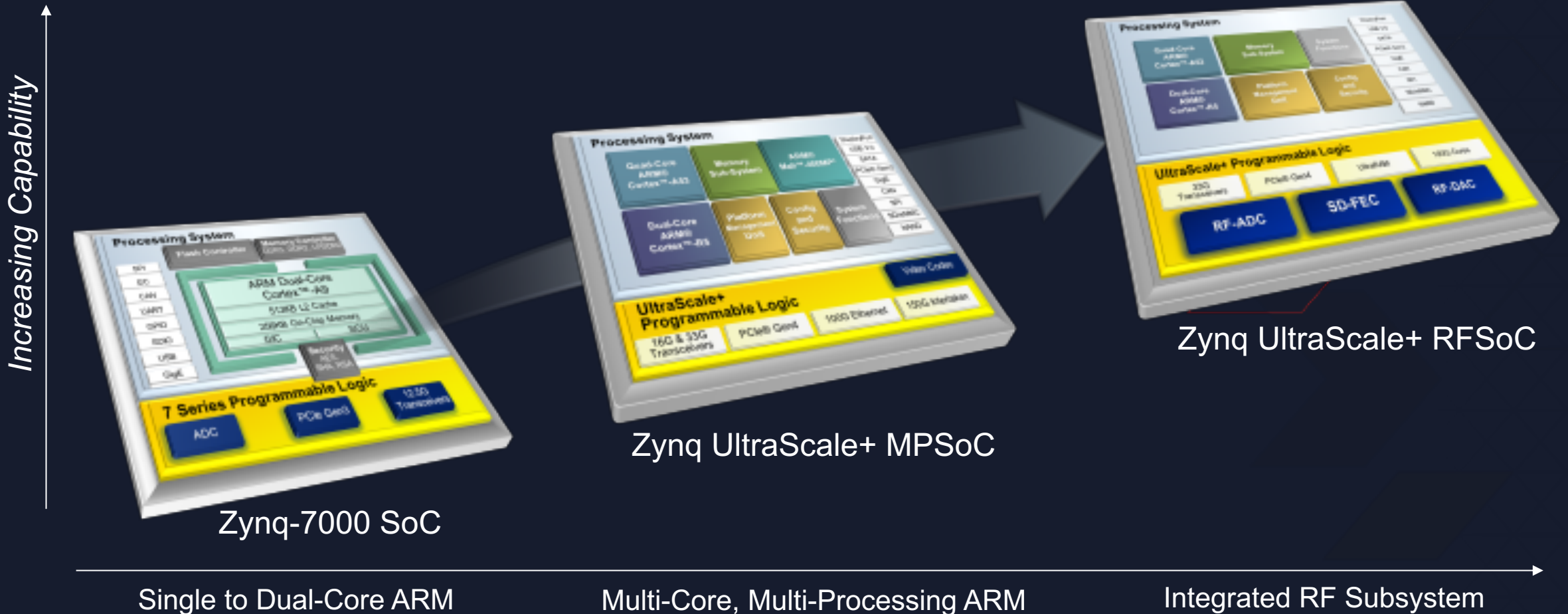
ALVEO

Accelerator Cards

Comprehensive SoC Portfolio

Heterogeneous Processing for Autonomous Embedded Systems

Embedded Vision • Automotive • Industrial • Edge Compute • Multi-Level Safety & Security

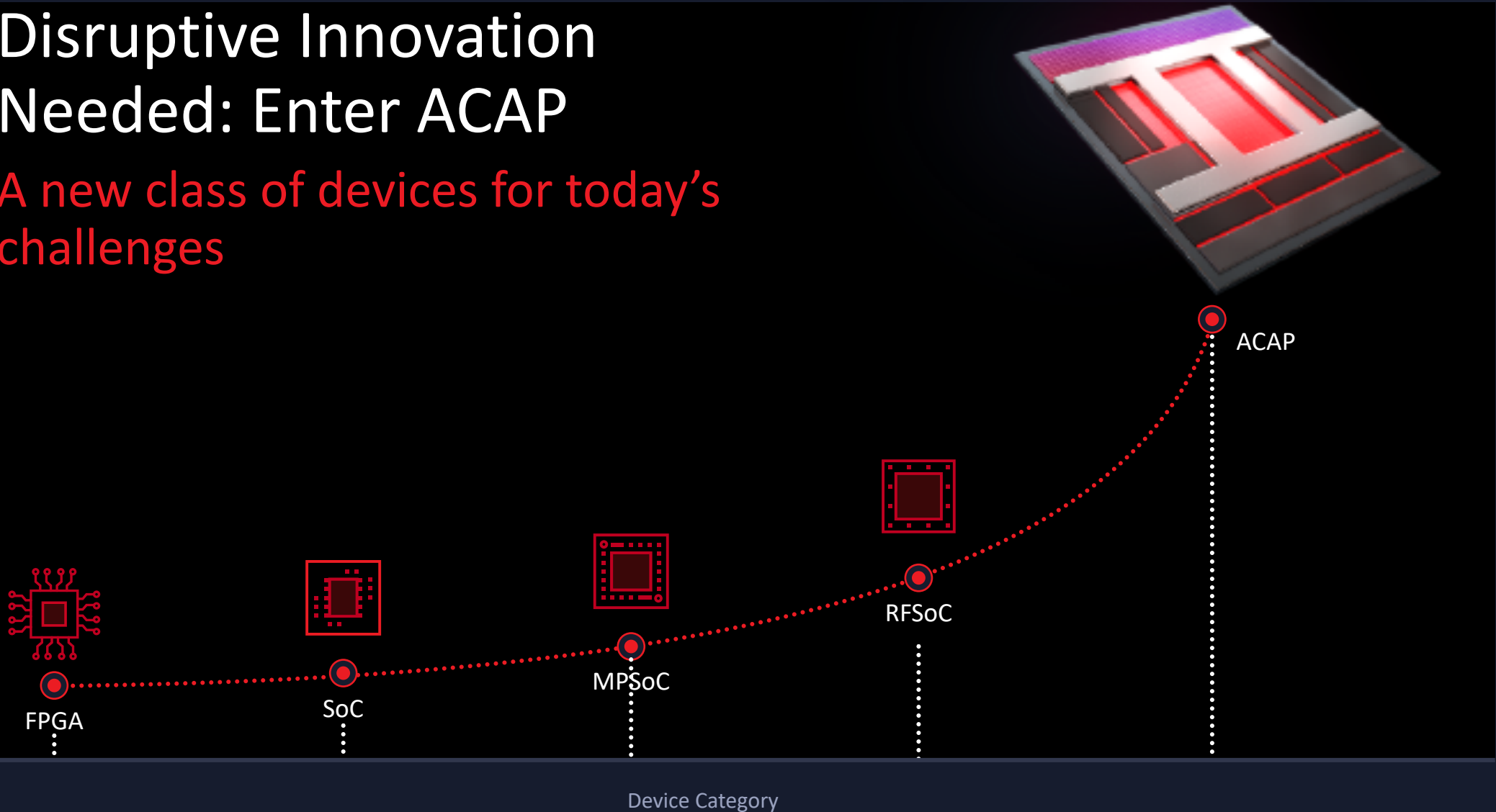


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➤ Disruptive Innovation Needed: Enter ACAP

A new class of devices for today's
challenges

Software Programmability



Industrial IoT & Vision Focus Applications

“Xilinx dominates the Industrial IoT market with an 80% share.” -marketrealist.com, July 2017



Robotics



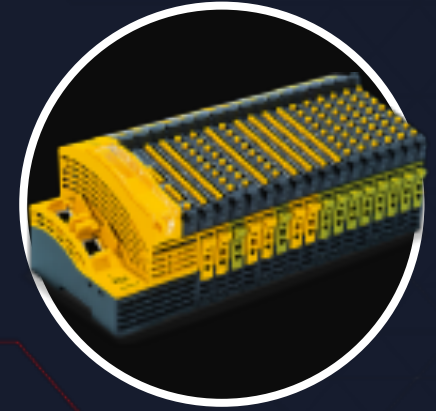
Drives & Motor Control



IIoT Gateways & Edge Appliances



PLC/PAC/IPC



I/O Modules & Smart Sensors



Human Machine Interface



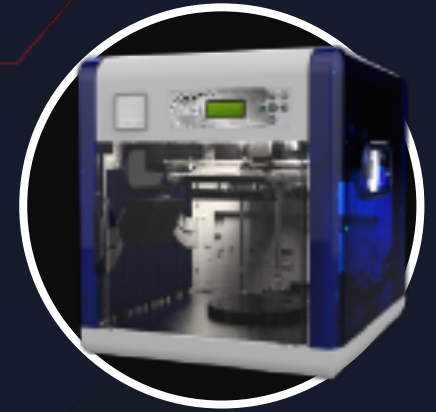
Video Surveillance & Smart City



Machine & Computer Vision



Smart Grid



3D Printing & Additive Manufacturing

Industrial, Vision, Healthcare & Sciences Focus

Building Intelligent & Adaptive Assets



World Class Industrial and Healthcare IoT Solution Stack

Curated Xilinx and Ecosystem Offerings for Intelligent Edge applications



Industrial PC Acceleration with ALVEO Accelerator Cards

Motion planning for robotics, intelligent frame grabbers, PLC offload, more



Complementary Edge and Cloud Cooperation

Integrating leading Cloud Frameworks

XILINX INDUSTRIAL AND HEALTHCARE IOT SOLUTIONS STACK



APPLICATION



EDGE AI



EMBEDDED SW
FOR MIXED CRITICALITY



ANY-TO ANY CONNECTIVITY
SMARTER CONTROL
EMBEDDED VISION



FUNCTIONAL SAFETY
& CYBERSECURITY



SILICON ARCHITECTURE

Building Intelligent and Adaptive Assets with Xilinx



Save Time and Reduce Total Cost of Ownership



Futureproof Against Evolving Standards & Threats



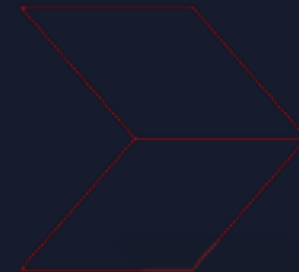
Maximize Privacy and Minimize Data Transmission



Mix IT and OT in a Single Chip Embedded Platform

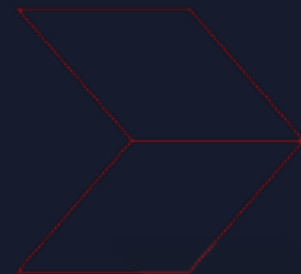


Low Latency, Low Power, Performance Edge AI



Topics in IIoT Seminar - SH

- > 9:30 – 9:45 研讨会主旨演讲
- > 9:45 – 10:15 工业物联网的工业控制解决方案 - Xilinx
- > 10:15 – 10:45 融入Python生态的Zynq软硬件设计框架 - Xilinx
- > 11:00 – 11:30 工业物联网的电机预测性维护 - Xilinx
- > 11:30 – 12:00 工业物联网，从现在到未来 - 台湾摩莎(MOXA)
- > 13:00 – 13:30 灵活的SoC解决方案助力医疗设备自动化 - 西安瑞日电子(Realect)
- > 13:30 – 14:00 机器视觉的发展趋势及解决方案 - Xilinx
- > 14:00 – 14:30 机器视觉及下一代工业相机 – 上海芯驿电子(Alinx)
- > 14:45 – 15:45 人工智能 – 给机器智慧之眼 - Xilinx
- > 15:45 – 16:30 机器视觉助力智能制造 – 海康威视(Hikvision)



Adaptable.
Intelligent.

谢谢!