



赛灵思工业物联网研讨会
XILINX IIoT SEMINAR

Welcome

Xilinx SoCs and ACAPs:

Scalable IIoT Platforms Across Edge and Cloud

Chetan Khona

Director, Industrial, Vision, Healthcare & Sciences (ISM)

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

GSK

CORECAM®

深圳站

HollySys

威视锐 | INNOVATION FOR RESEARCH
V3 TECHNOLOGY, LTD.

大恒图像
DHIM HENG GING

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

北京站

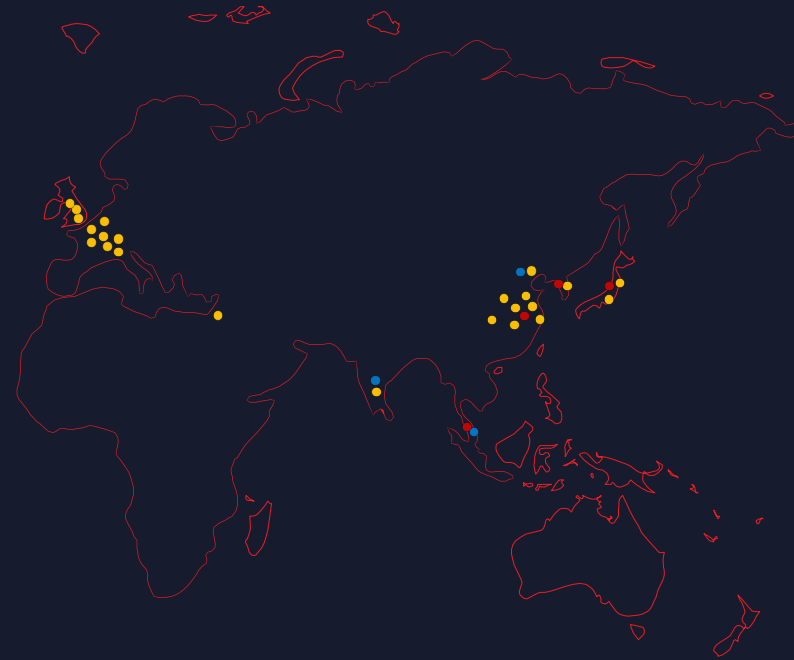
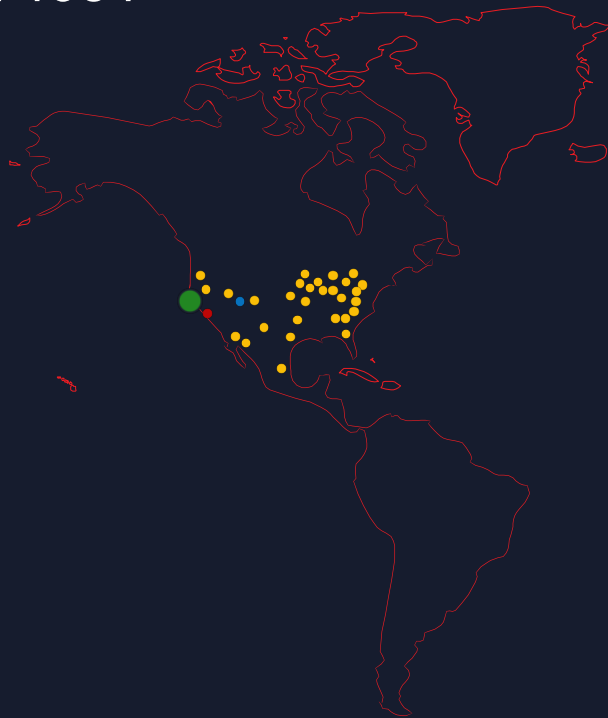
AVNET®
Reach Further™

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



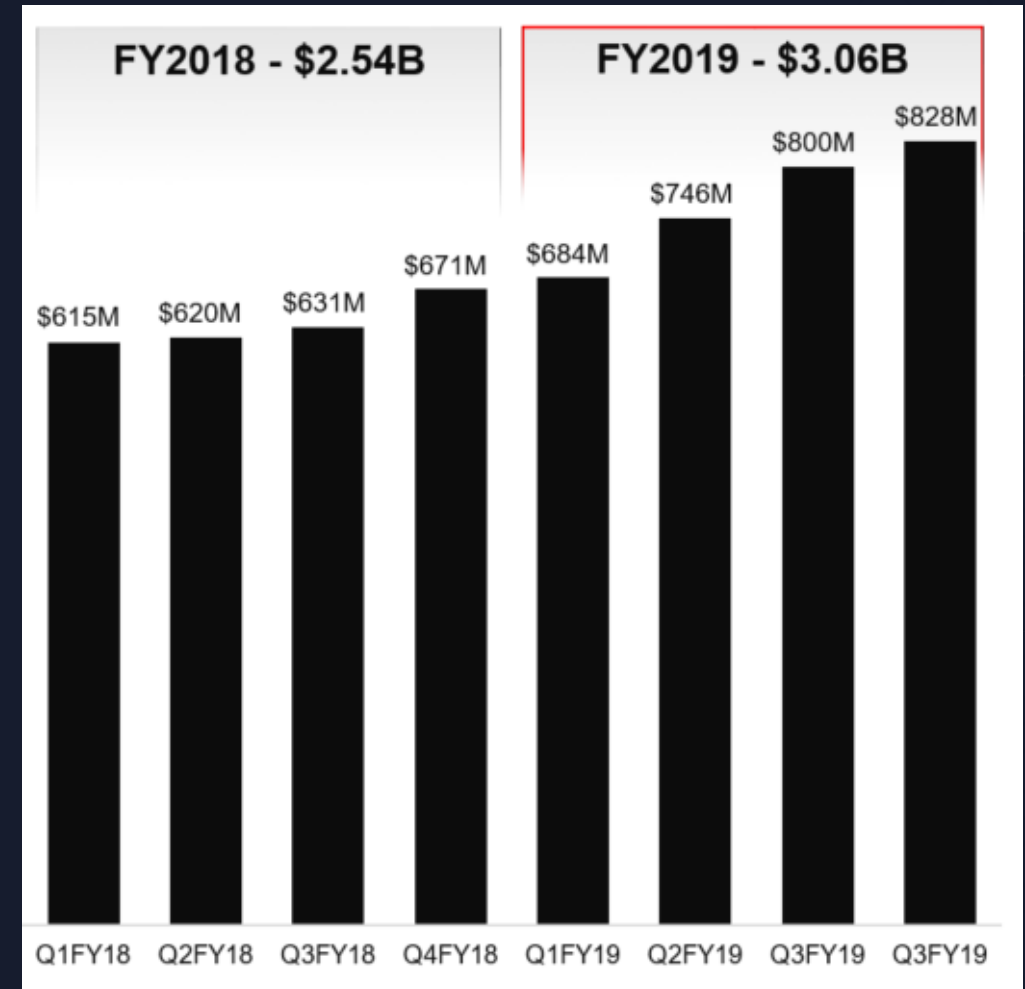
4,000+

Patents

Corporate Balance and Strength

- > \$3.0 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



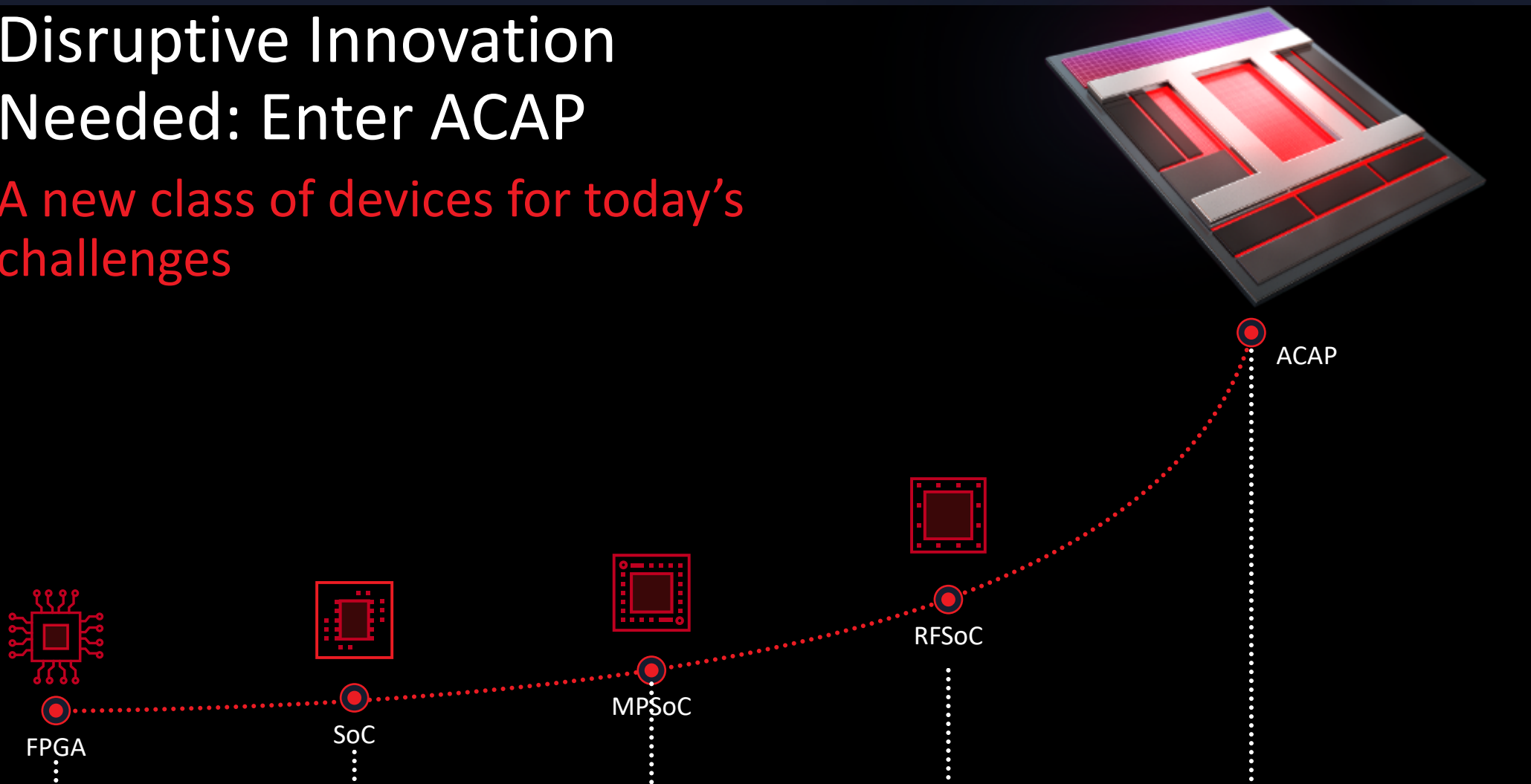
ALVEO

Accelerator Cards

➤ Disruptive Innovation Needed: Enter ACAP

A new class of devices for today's
challenges

Software Programmability



Device Category

© Copyright 2019 Xilinx

XILINX

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



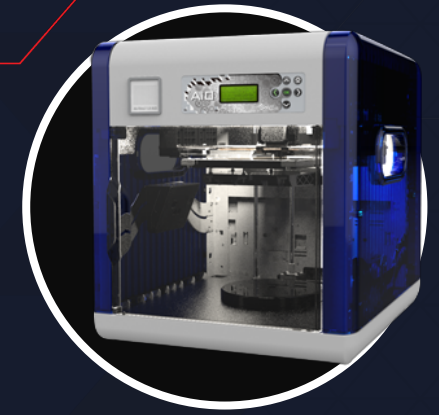
Video Surveillance & Smart City



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



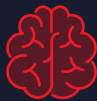
Futureproof Against Evolving Standards & Threats



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 - BJ

- > 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 高性能运动控制器 – 和利时(Hollysys)
- > 13:00 – 13:30 面向工业4.0的通信协议的现状与演进 – 盟通科技(Motrotech)
- > 13:30 – 14:00 机器视觉的发展趋势及解决方案 - Xilinx
- > 14:00 – 14:30 利用Zynq SoC加速工业物联网的网络部署 – 北京威视锐(V3)
- > 14:45 – 15:45 人工智能 – 给机器智慧之眼 - Xilinx
- > 15:45 – 16:30 智能工业相机助力智能制造 – 大恒图像



Adaptable.
Intelligent.

谢谢



赛灵思工业物联网研讨会
XILINX IIoT SEMINAR

 XILINX®