

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 准 微 控



CORECAM®

深圳站

HollySys

威视锐
V3 TECHNOLOGY, LTD. INNOVATION FOR RESEARCH

D HENG IM GING | 大恒图像

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

北京站

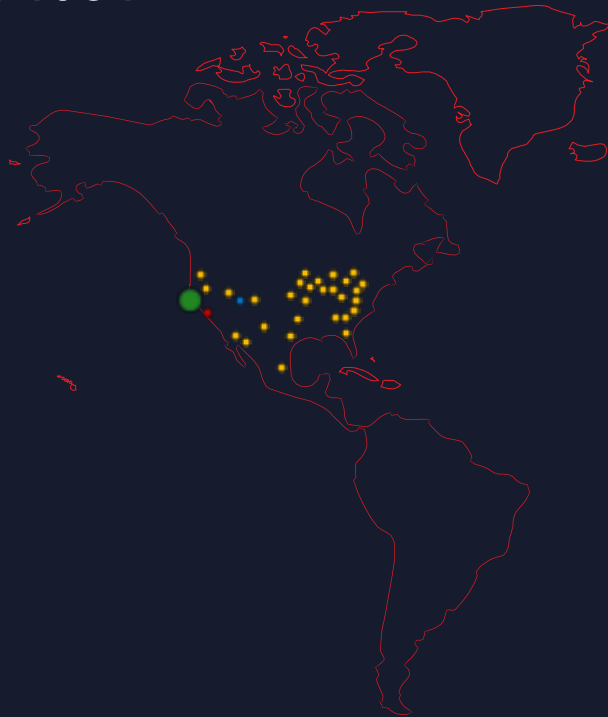
AVNET®
Reach Further™

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



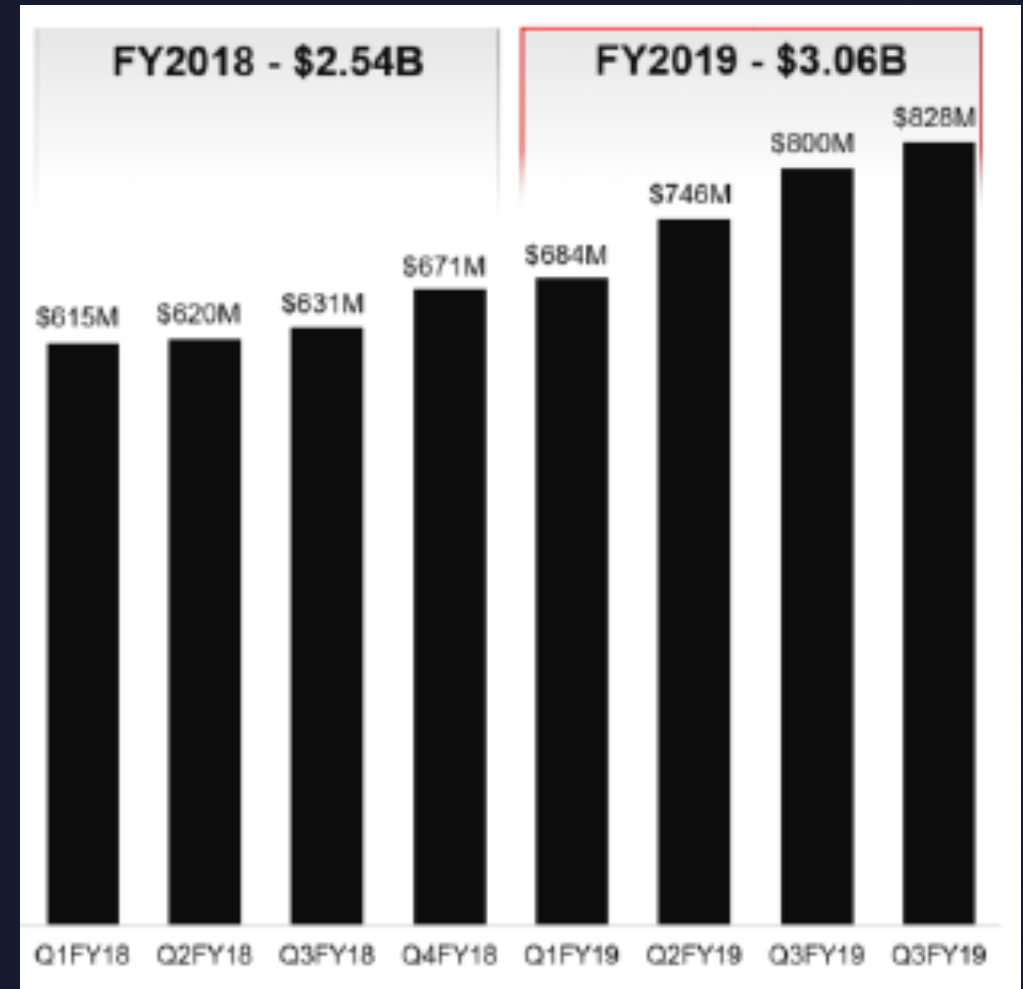
4,000+

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



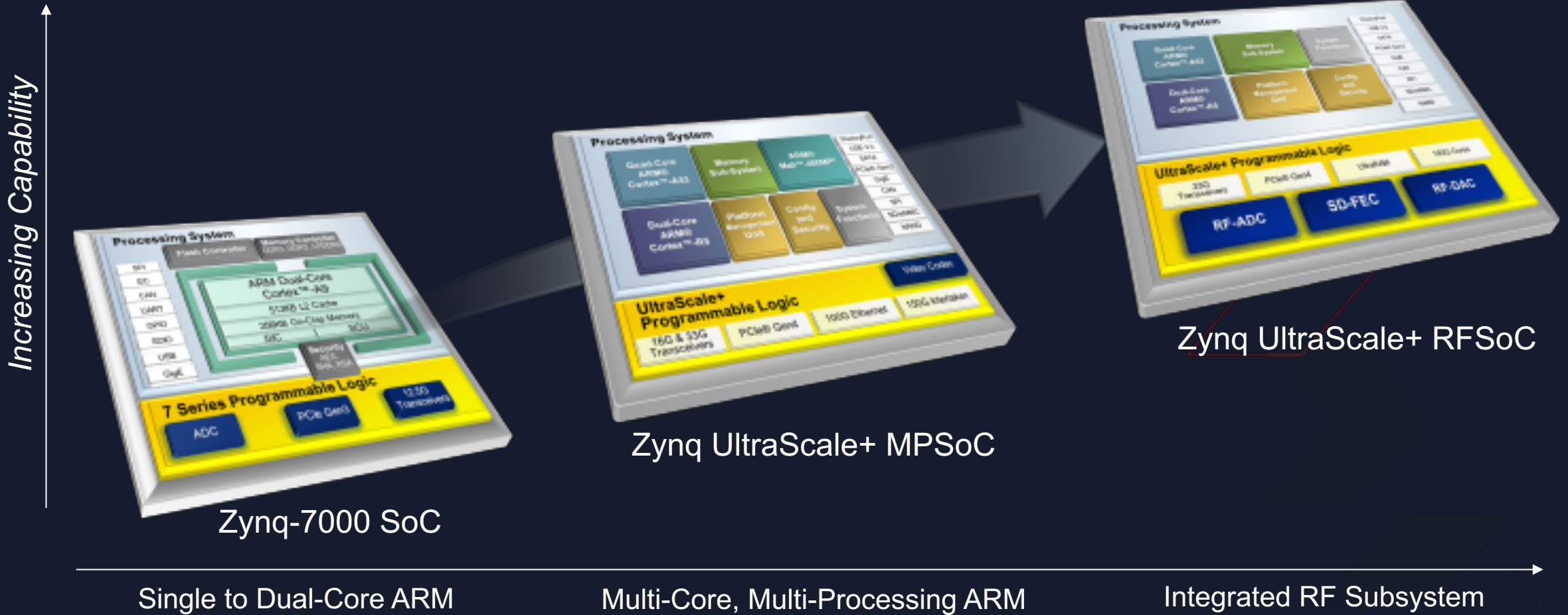
ALVEO

Accelerator Cards

Comprehensive SoC Portfolio

Heterogeneous Processing for Autonomous Embedded Systems

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

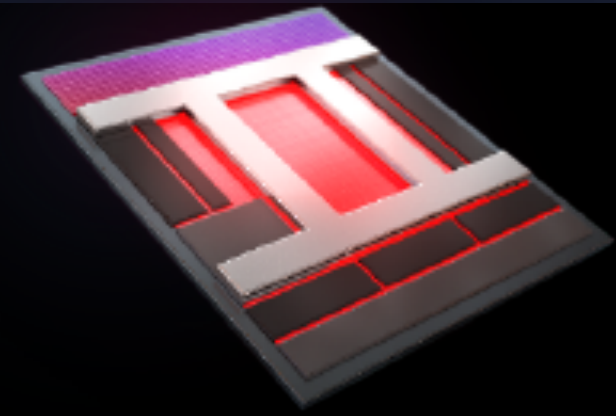
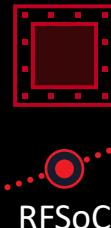
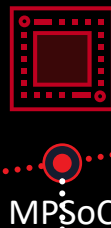
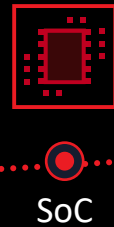
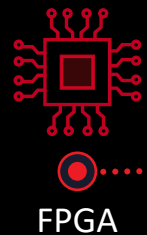


>> 7

➤ Disruptive Innovation Needed: Enter ACAP

A new class of devices for today's challenges

Software Programmability



Device Category

Industrial IoT & Vision Focus Applications

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



Robotics



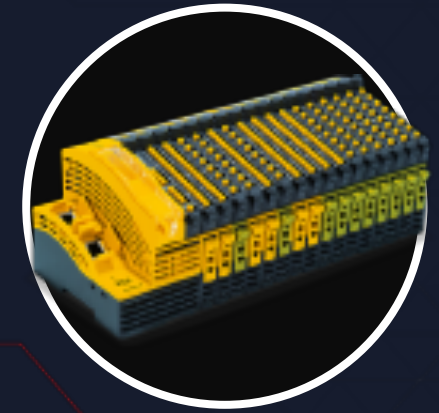
Drives & Motor Control



IIoT Gateways & Edge Appliances



PLC/PAC/IPC



I/O Modules & Smart Sensors



Human Machine Interface



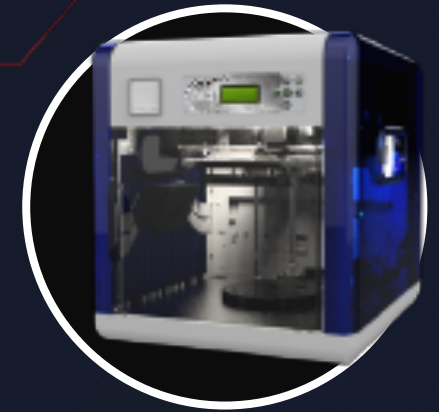
Video Surveillance & Smart City



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



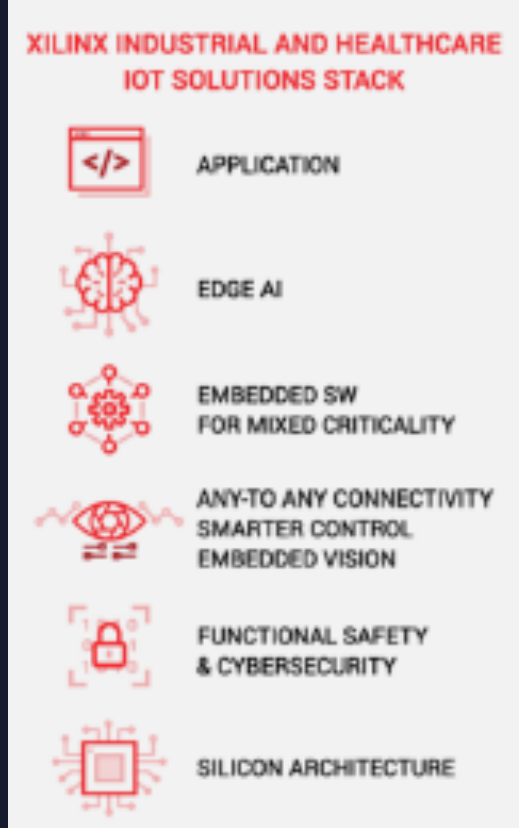
Industrial PC Acceleration with ALVEO Accelerator Cards

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



Complementary Edge and Cloud Cooperation

Integrating leading Cloud Frameworks



Building Intelligent and Adaptive Assets with Xilinx



Save Time and Reduce Total Cost of Ownership



Futureproof Against Evolving Standards & Threats



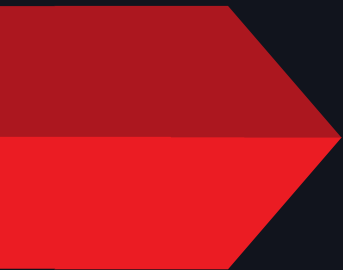
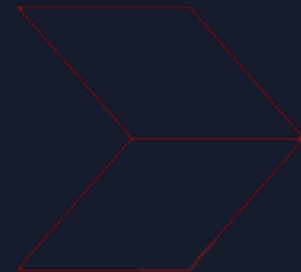
Maximize Privacy and Minimize Data Transmission



Mix IT and OT in a Single Chip Embedded Platform

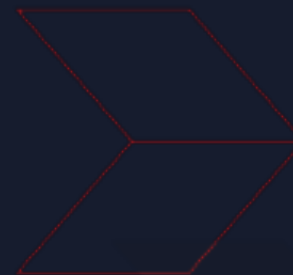


Low Latency, Low Power, Performance Edge AI



Topics in IIoT Seminar - SZ

- > 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 机器人驱控一体方案 – 武汉精锋微控(PS-Micro)
- > 13:00 – 13:45 ZYNQ数控平台 – 广州数控(GSK)
- > 13:45 – 14:15 机器视觉的发展趋势及解决方案 - Xilinx
- > 14:15 – 14:45 面向智能制造的板级解决方案 – 深圳米尔科技(Myir)
- > 15:00 – 15:45 人工智能 – 给机器智慧之眼 - Xilinx
- > 15:45 – 16:15 3~128轴EtherCAT运动控制器助力智能制造 – 正运动技术(zMotion)
- > 16:15 – 16:45 基于XILINX的工业&医疗影像增强IP - 深圳欧克曼(OCAM)



Adaptable.
Intelligent.

谢谢