

IoT's Impact on the Telecom Connector Industry

M-650-16
September 2016



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Republished by request, Bishop and Associates' *IoT's Impact on the Telecom Connector Industry* examines the effect the IoT will have on the telecommunications industry and in particular how the telecom industry relates to the consumer and computer markets within the IoT framework. This five-chapter, 162-page research report provides an in-depth analysis of the applications and connectors used in these three market sectors, providing sales dollars by application, product family and type.

Some think that the Internet of Things (IoT) term was coined rather recently, but it was used as early as 2009 by Kevin Ashton to describe the new idea of linking RFID in Proctor & Gamble's supply chain to the Internet. He used it to describe his vision of computers keeping track of and counting everything, as opposed to people feeding this information into computers by typing, pressing a record button, taking a digital picture or scanning a bar code. Ashton's vision is this: "If we had computers that knew everything there was to know about things—using data they gathered without any help from us—we would be able to track and count everything, and greatly reduce waste, loss and cost. We would know when things needed replacing, repairing or recalling, and whether they were fresh or past their best. We need to empower computers with their own means of gathering information, so they can see, hear and smell the world for themselves, in all its random glory. RFID and sensor technology enable computers to observe, identify and understand the world—without the limitations of human-entered data."



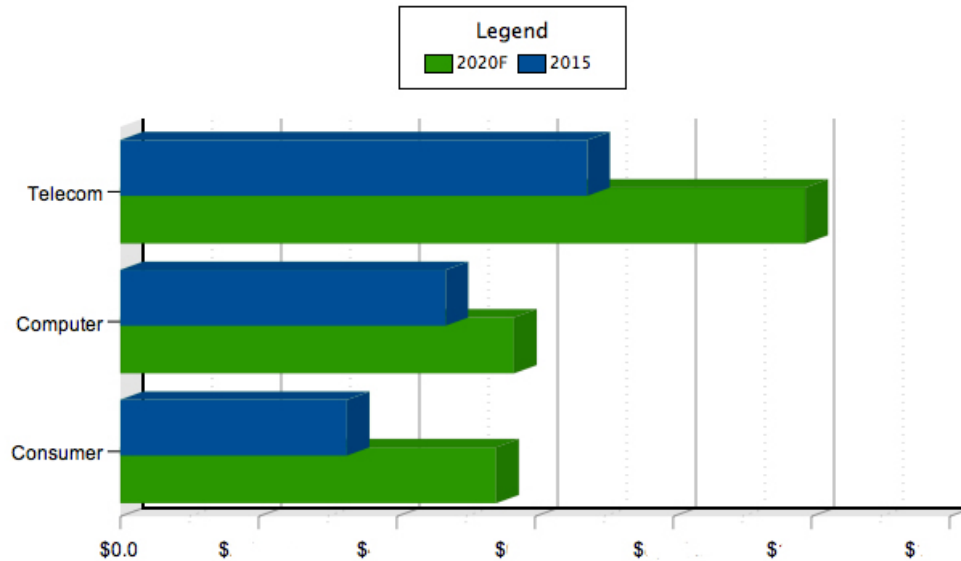
While the IoT is not quite at the level that Ashton envisioned yet, it is well on its way with a plethora of "things" being tracked. These "things" range from a Fitbit you wear on your wrist to track your health and fitness to tracking farmers' tractors and everything in between. These "things" are pervasive in our everyday lives now and new ones are being invented at increasing rates.

The goal of this report is to explain the different IoT vertical markets and technologies within the telecom market and to detail the effects these may have on the computer and consumer markets, as well as the connector industry. Chapter 2 of the report covers definitions that will be used throughout the report, and Chapter 3 highlights the wireless technologies and trends in the IoT market specific to telecommunications, computer and consumer devices. Detailed in Chapter 4 are IoT devices and applications and the specific connector products that are affected by them. In Chapter 5, five-year forecasts for these connectors segmented by region, market segment and Bishop's traditional connector categories are provided. In addition, included are forecasts for specific connector product types that are poised for growth due to IoT applications. These include modular jacks used in networking applications; board-mount high-speed I/O; USB; micro-coax for smartphones; FPC/FFC used in portable devices; and HDMI used in HDTVs and displays.

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The total market for IoT connector products sold into computer, consumer and telecom applications reached more than \$14.5 billion in 2015 and is anticipated to grow significantly by 2020, resulting in substantial increases in a number of key connector products.

**IoT Connector Products Sold into the Computer, Consumer and Telecom Sector
2015 versus 2020 Sales by Sector**



**IoT Connector Products Sold into the Telecom, Computer, and Consumer Sector
By Product Type
2015 through 2020 with 5-Year CAGR**

Product Type	2015	2016	2017	2018	2019	2020	2015 - 2020 CAGR
Coax	\$XXX.X	\$XXX.X	\$XXX.X	\$XXX.X	\$X,XXX.X	\$X,XXX.X	Y.Y%
DB-15 VGA	\$X.X	\$X.X	\$X.X	\$X.X	\$X.X	\$XX.X	YY.Y%
DB-9 Serial	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	Y.Y%
DVI	\$XX.X	\$XX.X	\$XX.X	\$XX.X	\$XX.X	\$XX.X	-Y.Y%
FPC/FFC	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	Y.Y%
HDMI	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	Y.Y%
Headers	\$XX.X	\$XX.X	\$XX.X	\$XX.X	\$XX.X	\$XX.X	-Y.Y%
USB	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	\$X,XXX.X	Y.Y%
Video/Audio	\$XXX.X	\$XXX.X	\$XXX.X	\$XXX.X	\$XXX.X	\$X,XXX.X	YY.Y%
Wire-Board	\$XXX.X	\$XXX.X	\$XXX.X	\$XXX.X	\$XXX.X	\$XXX.X	Y.Y%
Sensors for Wearables	\$XXX.X	\$XXX.X	\$XXX.X	\$XXX.X	\$XXX.X	\$XXX.X	YY.Y%
Total World	\$XX,XXX.X	\$XX,XXX.X	\$XX,XXX.X	\$XX,XXX.X	\$XX,XXX.X	\$XX,XXX.X	Y.Y%

\$ Millions

IoT's Impact on the Telecom Connector Industry

The following table of contents shows the detail provided in this new report.

Table of Contents

Executive Summary

Introduction
IoT Market for Connector Products
IoT Connector Products Sold into the Computer, Consumer and Telecom Sector, 2015 through 2020
IoT Products Sold into the Computer, Consumer and Telecom Sector by Application Type, 2015 - 2020
Connector Sales by Product Type – Telecom Sector 2015 and 2020F
Connector Sales by Product Type – Computer Sector 2015 and 2020F
Connector Sales by Product Type – Consumer Sector 2015 and 2020F
2015 IoT Market Share by Region
2020 IoT Market Share by Region
2015 Telecom IoT Market Share by Region
2020 Telecom IoT Market Share by Region
2015 Computer IoT Market Share by Region
2020 Computer IoT Market Share by Region
2015 Consumer IoT Market Share by Region
2020 Consumer IoT Market Share by Region

Chapter 1 – Introduction

Background
Evolution of IoT
IoT Map
IoT Vertical Market Applications
Objectives
Scope of this Report
Telecommunications Equipment Segment
Computer Equipment Segment
Consumer Equipment Segment
Methodology and Information Sources
Plan of Report

Chapter 2 – Definitions

Telecom Equipment Detail by Segment
Enterprise Network Equipment
Wireless Network Equipment
Wire-line Network Equipment
Cable/MSO Network Equipment
Alphabetical List of Telecommunications Equipment
Computer and Peripheral Equipment Detail by Segment
Consumer Equipment Detail by Segment
Region of the World
Terms and Definitions

Chapter 3 – IoT Wireless Technologies, Standards and Market Trends

Introduction
Emerging IoT Standards and Communications Technologies
IEEE and Ethernet
NEMA
Other Competing Standards Efforts
Wireless Network Technologies
Introduction

Chapter 3 – IoT Wireless Technologies, Standards and Market Trends (cont.)

Wireless Data Communication
Introduction
Specific to Sensors
Cellular – 2G to 5G
3G, 4G, LTE, LTE-Advanced
3G Technologies
3GPP LTE and LTE-Advanced
5G
Huawei's Vision of the Mobile Network to Support 5G
Mobile Network Evolution Roadmap
Certified Wireless USB
Near Field Communication
Radio-Frequency Identification (RFID)
RFID Bands and Applications
Wi-Fi (Including WiGig)
Visual Light Communication (VLC)
Other Wireless Technologies

Chapter 4 – IoT Devices, Applications and Connectors

Introduction
Telecommunications
The Mobile Backhaul Network
New Technologies to Support 4G and Beyond
Smartphones
Global Smartphone Shipments Market Share
Wi-Fi
IEEE 802.11 Wireless LAN Standards
LANs and Data Centers
1G, 10G and 40G Copper – RJ45 Connector Family
1G/10G and 25G-SFP and SFP10 (SFP+) and SFP25 Family
Pre-terminated Fiber Assemblies
40G QSFP10 (QSPF+) Family
100G CXP Family
100G CFP Family
100G QSFP28 Family
100G CPAK Family
400G CDFP Family
400G CFP8
WAN
Growth in Core Network Traffic
Metro vs Long-Haul Traffic Forecast
Cisco VNI
OTN Justification
Packet Optical Transport Platform (P-OTP).
Computer
PCs and Macs
PC Sales
Global Shipments of PCs by Type
Tablets
Technology & Design Trends
Connectors for Tablets
Servers
Data Center Servers – 10G
Server Data Rate Progression
Server Port Volume by Data Rate
Consumer
Sensor Connectors

IoT's Impact on the Telecom Connector Industry

Chapter 5 – Five-Year Forecasts

Introduction
Methodology
Total Market for IoT Connector Products
IoT Connector Products Sold into the Telecom, Computer, and Consumer Sectors, 2015 through 2020
Telecom, Computer and Consumer IoT Connectors, 2015 and 2020F
IoT Connector Products Sold into the Telecom, Computer, and Consumer Sectors by Application Type
IoT Connector Products Sold into the Telecom, Computer and Consumer Sectors by Product Type
IoT Market Share by Profiled Equipment Sector 2015
IoT Market Share by Profiled Equipment Sector 2020
IoT Connector Products Breakdown
Telecom Sector IoT Connector Products by Type, 2015 through 2020 with 5-Year CAGR
Market Share, Telecom Sector IoT Connector Products by Type 2015
Market Share, Telecom Sector IoT Connector Products by Type 2020
Telecom by Equipment Type, 2015 through 2020 with 5-Year CAGR
Wireless LAN by Product Type, 2015 through 2020 with 5-Year CAGR
Mobile Backhaul by Product Type, 2015 through 2020 with 5-Year CAGR
Smartphone by Product Type, 2015 through 2020 with 5-Year CAGR

Chapter 5 – Five-Year Forecasts (cont.)

Computer Sector IoT Connector Products by Type, 2015 through 2020 with 5-Year CAGR
Computer by Equipment Type, 2015 through 2020 with 5-Year CAGR
Servers by Product Type, 2015 through 2020 with 5-Year CAGR
Laptops by Product Type, 2015 through 2020 with 5-Year CAGR
Tablets by Product Type, 2015 through 2020 with 5-Year CAGR
Consumer Sector IoT Connector Products by Type, 2015 through 2020 with 5-Year CAGR
Consumer by Equipment Type, 2015 through 2020 with 5-Year CAGR
Set-top Boxes by Product Type, 2015 through 2020 with 5-Year CAGR
Smart TVs by Product Type, 2015 through 2020 with 5-Year CAGR
Wearables by Product Type, 2015 through 2020 with 5-Year CAGR
IoT Connector Products by Region
IoT Telecom, Computer and Consumer Products by Region, 2015 through 2020 with 5-Year CAGR
IoT Telecom Products by Region, 2014 through 2020 with 5-Year CAGR
IoT Computer Products by Region, 2014 through 2020 with 5-Year CAGR
IoT Consumer Products by Region, 2014 through 2020 with 5-Year CAGR

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- ❑ **Report M-650-16** **IoT's Impact on the Telecom Connector Industry (September 2016) RE-RELEASED**
- ❑ **Report M-550-16** **World Telecom Connector Market (September 2016) NEW**
- ❑ **Report M-121-16** **Top 100 Connector Manufactures (August 2016) NEW**
- ❑ **Report P-890-16** **High-Speed Board-to-Board Connectors (August 2016) NEW**
- ❑ **Report C-122-16** **2016 Connector Industry Yearbook (July 2016) NEW**
- ❑ **Report M-720-16** **European Connector Market 2015, 2016-2021 (June 2016) NEW**
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- ❑ **Report P-780-16** **KHz to THz: RF, Microwave, and Millimeter Wave Connectors (May 2016)**

- ❑ **Report F-2016-01** **Connector Industry Forecast (April 2016)**
- ❑ **Report M-700-16** **World Connector Industry Handbook (March 2016)**
- ❑ **Report M-4100-16** **Civil Aviation Market for Connectors 2016 (January 2016)**
- ❑ **Report M-850-15** **PC, Tablet & Smartphone Market Analysis and Forecast 2015-2020 (December 2015)**

- ❑ **Report M-1010-15** **World Automotive Connector Market (September 2015)**
- ❑ **Report C-330-15** **European Survey of the Electronic Connector Industry (August 2015)**
- ❑ **Report P-775-15** **Fiber Optic Connector Market 2015-2020 (August 2015)**

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