THE WORLDWIDE MERCHANT EMBEDDED **COMPUTING MARKET 2018 EDITION**

A Comprehensive Report on the Latest **Embedded Computing Technologies Plus Forecasts of Key Markets**

Report Highlights

- **Technical Trends**
 - PCI
- **CompactPCI**
- AdvancedTCA ◆ PC/104
- AdvancedMC
- MicroTCA
- **COM Express** PMC
- VMEbus
- OCP
- **Market Trends**
 - Total Available Market
 - **Competitive Strategies**
 - **Corporate Relations**
- **Industry Analysis and Forecast, 2015-2022**
 - MEC Market
 - Total Available MEC Market
 - By Segment (Communications, Industrial, Medical, Aerospace/Military, Other Applications)
- Company Profiles (89)

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Synopsis

The Worldwide Merchant **Embedded** Computing Market - 2018 Edition report analyzes the performance of the standards-based and non-standards-based industry from 2015 -Although there are several hundred 2022. companies in the standards-based MEC market, most are fairly small in revenue and highly specialized, focusing on specific application segments with unique product requirements. However, the report also examines the world's leading contract manufacturers that participate in the non-standards-based product assemblies in the same market segments.

The overall MEC market is quite large and is estimated to be \$390 billion in size worldwide. But this includes the non-standards-based product assemblies in the communications, industrial, medical, aerospace/military and "Other" market categories. The standards-based MEC market is more focused and is estimated to be approximately \$10.5 billion in size worldwide. The product assemblies in this specific market involve quite complex and often low-volume designs, and the report endeavors to analyze exactly what product application groups are the most attractive and the fastest growing.

The total MEC industry is estimated to be growing at 6.9% CAGR from 2017-2022. Vertical market segments such as the Communications sector, are growing faster as the new G5 technology standards are implemented that will impact cellular infrastructure, enterprise networks, telephony enterprise and class carrier equipment. In addition, advanced medical products in the imaging, diagnostics and surgical sectors are showing great promise over the next few years.

The Industrial market segment also holds strong potential for the process control industries (oil & gas, mining, agriculture, paper/pulp and textiles) as the Industrial Internet of Things begins to impact manufacturing and engage Big Data solutions for increased productivity and output. Related industries like robotics will require high performance designs that utilize advanced artificial intelligence and virtual reality solutions. Clean energy is also examined for optimizing efficiency in solar, wind and tidal technical solutions.

The aerospace/military industries appears to be on the increase if we can trust the proposed new Trump and Chinese budgets spending. Most of this is focused on advanced weaponry, integrated flight navigation, surveillance and even emerging space and science technologies that are expected to have profound changes over the forecast period. Even commercial aviation is expected to benefit from advanced in-flight entertainment systems for long-haul international transportation.

Finally, there now exists many evolving applicationspecific solutions in the security/surveillance, pointof-sale/ATM/kiosk hardware that are emerging to automate our life-styles that the report classifies as "Other" MEC applications and happen to be showing great promise.

In addition to quantifying the MEC market for both standards-based and non-standards-base electronic assemblies, we list nearly 171 of the top suppliers (81 of the non-standards-based contract manufactures and 89 of the pure-play standards-based companies). Overall, this report will provide the best and most detailed snapshot available of the worldwide merchant embedded computing market.

About the Author

Randall Sherman is the president and principal analyst of New Venture Research Corp., a technology market research and business consulting firm focused on the EMS and OEM electronics manufacturing industries. Mr. Sherman has more than 25 years' experience in technology and business research. He began his career as a telecom network design engineer and holds an undergraduate degree in Astrophysics. He has held senior positions at various market research firms, including Creative Strategies, Frost and Sullivan, and BIS Strategic Decisions. Mr. Sherman holds an MSEE from the University of Colorado and an MBA from the Edinburgh School of Business.

Table of Contents

Chapter 1: Introduction

Chapter 2: Executive Summary

Chapter 3: Technical Trends and Standards

Industry Overview (market drivers, open architectures, emerging technologies)

VITA (PMC, 2eSST, PCI-X, PrPMC, VXS, XMC, VPX, REDI, Space VPX), PCIMG (PCI-ISA, ePCI-X, PCI Express, Compact PCI, AdvancedTCA, Advanced MC, MicroTCA), PC/104, PC/104-Plus, EBX, EBX Express, EPIC, EPIC Express, OCP, Intel and VIA Motherboards (ATX, MicroATX, FlexATX, BTX, Mini-ITX, Nano-ITX, Pico-ITX), COM (ETX, COM Express, XTX, Rugged COM, Qseven, CoreExpress, SFF-SIG, SMARC, Embedded NUC, COM Express Mini, Freescale I.MX6, ARM Cotex A9, SFF-SIG, (SUMIT, COMIT, XR-DIMM)

Chapter 4: Economic Outlook and Worldwide Electronics Industry Forecasts, 2017-2022

Global Economic Factors

Mergers and Acquisitions

Total Available Market for Electronics Assembly

Electronics Assembly Overview

Communications Assembly (9 market segments)

Computer Assembly (11 market segments)

Consumer Assembly (12 market segments)

Industrial Assembly (4 market segments)

Medical Assembly (3 market segments)

Automotive Assembly (4 market segments)

Military/Aerospace Assembly (5 market segments)

Competitive Strategies and Corporate Relations Standards Proliferation

Chapter 5: MEC Market Forecasts, 2017-2022

Electronics Assembly - Total Available MEC Market (Communications, Industrial, Medical, Aero/Mil, Other) Standards-Based MEC by Revenue and Market (Communications, Industrial, Medical, Aero/Mil, Other)

Communications MEC Assembly (Cellular Infrastructure, Enterprise Network, Enterprise Telephony, Carrier Class)

Standards-Based Communications MEC Assembly (Cellular Infrastructure, Enterprise Network, Enterprise Telephony, Carrier Class)

Industrial MEC Assembly (Process Control, Test & Measurement, Other Industrial, Clean Energy)

Standards-Based Industrial MEC Assembly (Process Control, Test & Measurement, Other Industrial, Clean Energy) Medical MEC Assembly (Medical Diagnostics, Therapeutic, Monitoring & Surgical)

Standards-Based Medical MEC Assembly (Medical Diagnostics, Therapeutic, Monitoring & Surgical)

Aerospace/Military MEC Assembly (In-Flight Entertainment, Flight Navigation, Weapons, C4, Other Military, Other Transportation)

Standards-Based Aerospace/Military MEC Assembly (In-Flight Entertainment, Flight Navigation, Weapons, C4, Other Military, Other Transportation)

"All Other" MEC Assembly (Automotive, Security/Survellience, Point-of-Sale/Kiosk, Other Embedded)

"All Other" Standards-Based MEC Assembly (Automotive, Security/Surveillance, Point-of-Sale/Kiosk, Other Embedded)

Chapter 6: MEC Competitive Ranking

Standards-Based MEC Suppliers (89 Suppliers)

Non-Standards-Based MEC Suppliers (81 Suppliers)

Partial List of Tables and Figures

WSTS Worldwide Semiconductor Forecast for 2018

The Worldwide Assembly Market for Electronics Products, 2017

Nominal GDP of Major Countries (\$B), 2017–2022

Growth Rates of Major Countries, 2017-2022

Worldwide Electronics Assembly Value by Market, 2017–2022

Communications Product Assembly Value, 2017–2022

Computer Product Assembly Value, 2017-2022

Consumer Product Assembly Value (\$M), 2017 and 2022

Industrial Product Assembly Value, 2017–2022

Medical Product Assembly Value, 2017-2022

Automotive Product Assembly Value, 2017–2022

Commercial Aviation/Defense/Other Transportation Product Assembly Value, 2017–2022

Home/Commercial/Government IoT Product Assembly Value, 2017–2022

Total MEC Assembly Market by Segment, 2015–2022

Total Standards-Based MEC Assembly Market by Segment, 2015–2022

Total MEC Communications Market by Application, 2015–2022

MEC Standards-Based Communications Market by Application, 2015–2022

Total MEC Industrial Market by Application, 2015–2022

MEC Standards-Based Industrial Market Application, 2015–2022

Total MEC Medical Market by Application, 2015–2022

MEC Standards-Based Medical Market by Application, 2015–2022

Total MEC Aerospace/Military Market by Application, 2015–2022

MEC Standards-Based Aerospace/Military/Other Market by Application, 2015–2022

Total Standards-Based MEC "Other Assembly" Market by Application, 2015–2022

Estimated Revenue and Percent of MEC Standards-Based Suppliers for 2016

EMS Assembly of MEC Non-Standards-Based Products for 2016

2eSST-Based Board

VSX-Based Board

VITA-46 VPX Hybrid Backplane

SpaceVPX SATCOM System

CompactPCI Express Board

AdvancedTCA Board

Six Different Packaging Possibilities for MicroTCA

Worldwide Electronics Assembly Value by Market (\$M), 2017 and 2022

Communications Product Assembly Value (\$M), 2017 and 2022

Computer Product Assembly Value (\$M), 2017 and 2022

Consumer Product Assembly Value (\$M), 2017 and 2022

Industrial Product Assembly Value (\$M), 2017 and 2022

Medical Product Assembly Value (\$M), 2017 and 2022

Automotive Product Assembly Value (\$M), 2017 and 2022

Commercial Aviation, Defense, and Other Transportation Product Assembly Value (\$M), 2017 and 2022

Total MEC Assembly Market by Segment, 2015–2022

Total Standards-Based MEC Assembly Market by Segment, 2015–2022

Total MEC Communications Market by Application, 2015–2022

MEC Standards-Based Communications Market by Application, 2015–2022

Total MEC Industrial Market by Application, 2015–2022

MEC Standards-Based Industrial Market Application, 2015–2022

Total MEC Medical Market by Application, 2015–2022

MEC Standards-Based Medical Market by Application, 2015–2022

Total MEC Aerospace/Military/Other Market by Application, 2015–2022

MEC Standards-Based Aerospace/Military/Other Market by Application, 2015–2022

Total Standards-Based MEC "Other Assembly" Market by Application, 2015–2022

Standards-Based MEC Company Profiles - Chapter 7

Curtiss-Wright AAEON Interface Concept Portwell **Cyclone Microsystems** RadiSys **Abaco Systems** loxos Data Device Corp. **Acromag** iwave Systems RTD Embedded DFI, Inc. S&T Duetschland **Acrosser** Lanner Dialogic **SECO ADLINK Technology** LCR Embedded **Diamond Systems Shenzhen NORCO** Advantech Leonardo MW **Ducommun** Aitech **MEN Mikro** Shiratech E.E.P.D. **SKY Computers** Alpha Data **Mercury Systems** Elma Electronic Alphi Technology Solectrix GmbH Micro/sys **ELTEC Technobox Annapolis Micro MPL Embedded Planet TEK Microsystems ARBOR Technology MSC Technologies Eurotech TES Electronic** Artesyn Embedded N.A.T. **EVOC Intelligent Tech AudioCodes Nallatech TEWS Technologies** exceet Group **Avalue Technology Themis Computer NEXCOM Extreme Engineering Trenton Systems Axiomtek Nutaq Fastwel Trident Infosol** b-plus GmbH Octagon Systems Galleon Embedded **BittWare V Rose Microsystems One Stop Systems** Garz & Fricke CommAgility **Pactron** Vadatech **General Micro** Concurrent VersaLogic **PCI Systems** Hectronic congatec AG **VIA Technologies Pentair HEITEC WinSystems Connect Tech Pentek**

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