THE MERCHANT EMBEDDED COMPUTING MARKET 2016 EDITION


Report Highlights

- Technical Trends
  - PCI ISA
  - AdvancedTCA
  - AdvancedMC
  - COM Express
  - PMC
  - CompactPCI
  - PC/104
  - MicroTCA
  - VMEbus

- Market Trends
  - Total Available Market
  - Competitive Strategies
  - Corporate Relations

- Industry Analysis and Forecast, 2007-2020
  - Market Applications
  - Bus Architectures
  - Board Functions

- Company Profiles (86)
The Medical segment was hit hard by the healthcare cutbacks but new applications are emerging in diagnostic imaging and surgical hardware. The usually healthy Military/Aerospace segment is now facing a rapidly declining defense department budget in the USA. Counter to this, the military is trying to use more and more electronics for the Internet enabled soldier and robotic weapons.

Each of the nine unique architectures has a different rate of adoption depending on the needs of individual application segments. Overall key trends concern power supply and usage, green technologies and system size reduction. The new 28- and 32-nm silicon for microprocessors, graphics, DSPs and high integration I/O chip packs provide a lot of processing power while greatly reducing power consumption. These powerful devices are changing the landscape of the embedded board market. High integration silicon and serial buses enable more smaller form factors than in the past and are making many older, parallel bus structures, such as PCI, look obsolete. New bus structures continue to proliferate around the major and long established legacy bus architectures but the number of variances are shrinking.

The MEC industry can be segmented into four board functions defined as: single-board computers (SBC), digital signal processor (DSP) boards, I/O boards and an ‘All Other’ category that incorporates a huge number of diverse and specific functions. In some applications I/O boards are proliferating and are customized to the wide spectrum of I/O functions that different applications use. In other applications, single-board computers are becoming the trend as they incorporate more and more functionality with advanced silicon and draw in DSP, graphics and many advanced I/O functions.

About NVR

New Venture Research Corp. (NVR) was established in 1988 to provide advanced business research services for the high technology electronics sector. Today, the company publishes a number of syndicated reports related to electronics manufacturing services, IC packaging and embedded board level products. NVR maintains the only industry newsletter dedicated to EMS, and conducts private client research involving a wide variety of subjects.
Chapter 1: Introduction

Chapter 2: Executive Summary

Chapter 3: Technical Trends

Industry Overview (market drivers, open architectures, emerging technologies)
VITA (PMC, 2eSST, PCI-X, PrPMC, VXS, XMC, VPX, REDI, FMC, LRIE, Open VPX), PCIMG (PCI-ISA, Compact PCI, AdvancedTCA, Advanced MC), PC/104, 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 (SUMIT, COMIT))
Historical Analysis (2003-2012)

Chapter 4: Market Trends and Analysis - 2007-2015

Global Economic Factors
Mergers and Acquisitions
Total Available Market
  Electronics Assembly Overview
  Communications Assembly
  Industrial Assembly
  Medical Assembly
  Military/Aerospace Assembly
  Other Assembly
Competitive Strategies Corporate
Relations Standards Proliferation

Chapter 5: Revenue Forecasts by Application 2015-2020

State of the Industry (Security, Cloud Services, IC Manufacturers)
Revenue by Application Summary
Communications Assembly, Bus Architecture and Function Forecasts
Industrial Assembly, Bus Architecture and Function Forecasts
Medical Assembly, Bus Architecture and Function Forecasts
Aerospace/Military Assembly, Bus Architecture and Function Forecasts
“All Other” Assembly, Bus Architecture and Function Forecasts

Chapter 6: Revenue Forecasts by Bus Architecture, 2015-2020

Bus Architecture Trends and Analysis (PCI, Compact PCI, VMEbus, AdvancedTCA, PMC, PC/104, EPIC, EBX, ATX, ITX), COM, AdvancedMC, MicroTCA, and “Other Bus” Architectures

Chapter 7: Revenue Forecasts by Board Function, 2015 - 2020

SBC Boards/Modules
DSP Boards/Modules
I/O Boards/Modules
“Other Functions”

Chapter 8: Company Profiles

AAEON
AcQ Inducom
Acromag
Acrosser
ADLINK
AdvancedIO Systems
Advantech
Aitech
ARBOR Technology
Artesyn Embedded
AudioCodes
Avalue Technology
AXIOMTEK
b-plus GmbH
BittWare
Concurrent Tech
congatec AG
Connect Tech
Cornet Technology
Critical I/O
Curtiss-Wright
Cyclone Microsystems
Data Device
Data Modul
DFI, Inc.
Dialogic
Diamond Systems
DSM Computer
Dynatemp
E.E.P.D.
Elma Electronic
ELTEC
Embedded Planet
Eurotech
EVOC Intelligent Tech
Exceet Group
Extreme Engineering
Fastwel
GE Automation & Contr
General Micro Sys.
Hectronic
I-Bus
IBASE Technology
IEI Integration
ies GmbH
Interface Concept
IWave Systems
Kontron
Lanner
Magna
MEN Mikro
Mercury Systems
Micro/Sys
Nallatech
National Instruments
NEXCOM
Nutaq
Octagon Systems
One Stop Systems
Pactron
Pentair Electronics
Pentek
PFU Systems
Portwell
RadiSys
RTD Embedded Tech
SECO
Shiratech
Sintecs
SKY Computers
Solectrix GmbH
Technobox
TEK Microsystems
TES Electronic
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TEWS
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VadaTech
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VIA Technologies
WinSystems
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