a leading technology service provider in Germany, regards Intel-based products as an essential core area. This includes both standard embedded PC components and platforms as well as purely customer-specific developments. TQ’s expertise in Intel-based systems has secured it the highest classification, PLATINUM STATUS, in the Intel Technology Provider Program.
TQMx86 New Products / Latest Technology

The full range of x86 Embedded Performance

COMSys
Highly flexible and scalable platform

EVALx1000 with Intel® Quark X1000 series
Key Features

- Intel® Quark™ X1000 optimized for IoT Gateway applications
- Ultra Low Power (max. 2.2W TDP)
- Tested with Intel® IoT Gateway Software Stack ("Moon Island")
- Available with Intel® IoT Gateway Development License
- Modular Design for Rapid Prototyping (TQMx1000 + MBx1000)
  - Software development
  - Feature testing and specification
  - Feasibility analyses (3D,...)
Deep System-wide Insight for Embedded and Mobile Developers

Explosion of connected smart devices is driving an unprecedented need for efficient tools to meet shorter development cycles. Intel® System Studio provides deep system-wide insight into power, performance, and reliability that helps accelerate time to market of Intel Architecture based mobile and embedded systems and embedded applications.

Intel® System Studio is a Complete Tools Solution Covering Embedded Application and System Software Cross development

Benefits:

Accelerate Time-to-Market
Speed-up development and testing with deep hardware and software insight

Strengthen System Reliability
Enhance system stability using in-depth system-wide debuggers and analyzers

Boost Power Efficiency and Performance
Boost system power efficiency and performance using system-wide analyzers, compilers and libraries

Composer Edition
IDE integration for quick start development Compiler & Libraries - improve system and embedded application performance and energy efficiency.

Professional Edition
Composer Edition + Performance, power and correctness analyzers for advanced performance and energy efficiency, and more robust systems

Ultimate Edition
Professional Edition + Deep system-wide insight through JTAG assisted debug and trace capabilities

What is new with Intel® System Studio 2015

- Windows® Target Support
- Enhanced Intel® VTune™ Amplifier for Systems
- Android® Lollipop® and 64-bit Ready
- Offload Compute-intensive Code to Integrated Graphics Cores
- Intel® System Debugger for Easier Defect Isolation
- Improved IDE Integration
- Advanced UEFI Debugging Enhanced Intel® Energy Profiler
Embedded Modules

- **TQMxE38M - COM Express™ Mini Module with Intel® Atom™ E3800**

- **NEW: TQMx50UC - COM Express™ Compact Module with Intel® Core™ 5000U Series (5. Generation)**
  Highest performance with Intel® Core™ i3-5010U Processor (3M Cache, 2.10 GHz)
  Intel® Core™ i5-5350U Processor (3M Cache, up to 2.90 GHz)
  Intel® Core™ i7-5650U Processor (4M Cache, up to 3.20 GHz)

Embedded Systems

- **Professional Tablet with Intel® Atom™ Z3745**
  The hardware and mechanical structure of the tablet can endure being dropped from 1m height (up to 1.8 m with an optional MIL casing). The water-proof, shock-proof and dust-proof housing (IP65) withstands the requirements of industrial, construction, logistics and other harsh environments without the extra bulk or weight of a ruggedized case.

Embedded PCs & Platforms

- **EVALx1000 - Evaluation platform with Intel® Quark™ X1000 SoC series**
  Focused on IoT Gateway applications
  This Evaluation platform is for testing purpose / rapid prototyping only. Configurations for mass production will be individually adapted to customer requirements.

- **QSys: Ultra compact and low powered with latest Intel® Atom™ E3800 (BayTrail)**
  Modular platform based on QSeven standard
  The Qseven mainboard (carrier board) MB-Q7-2 in combination with a standard Qseven 2.0 (x86) module forms an ultra compact hardware kit. The compact design with only 10 cm x 10 cm x 2.3 cm and the huge amount of interfaces and functionalities allows the user to create high performant but passive cooled solutions like BoxPCs, PanelPCs and custom specific devices in a very fast and convenient way.

- **COMSys: Extremely flexible and scalable from Intel® Atom™ up to Intel Core™ i7**
  Modular Platform based on COM Express™ standard
  The COM Express mainboard (carrier board) MB-COME-1 in combination with a standard COM Express module forms a very compact hardware kit that can be used for a freely scalable embedded PC platform thanks to its modular design. Based on COMSys specific housing-solutions BoxPCs and Panel-PCs are available. There are standard till extremely rugged, dust and spray proofed designs obtainable.

TOTAL DEVELOPMENT SOLUTIONS FOR EMBEDDED SYSTEMS

ESS's team of technical experts are adept in precisely identifying client needs, recommending end to end solutions, training and supporting client teams while they learn to effectively leverage the entire toolset features.

ESS also provides product development and total system solutions including application development in C and C++, assembly coding, firmware and device driver development, RTOS porting to target systems and custom board design.

ESS is an active member of India Electronics Semiconductor Association (IESA), a premier trade body representing the Indian Electronic System Design and Manufacturing (ESDM) industry.

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