

**ANY AND EVERY  
MICROPROCESSOR  
&  
MICROCONTROLLER  
H/W AND S/W DEVELOPMENT TOOLS  
FOR  
EMBEDDED SYSTEMS APPLICATIONS**



**EMBED TECHNOLOGIES PRIVATE LIMITED**

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## **COMPANY PROFILE**

Embed Technologies Pvt. Ltd. [ **EmTech** ] has been in Microprocessor technology for the last 15 years, providing Development and Debug Solutions to the varied customers.

Founded by Late Mr. A.N Srinivas in 1995, a Pioneer in providing Embedded Solutions, **EmTech** has created a niche for itself in the Market. We offer excellent customer support and cater to the needs of Clients from Telecommunications, Research & Development, Process Controls, Automation Industry, Networking, Aviation, Defence, Power Systems and Electronic Industry and many more.

Strategic partnerships with world leaders such as Motorola, WindRiver, MangoDSP, Tews, TI etc..., have made it possible for us to provide Complete Integrated Single Source Solution for all embedded applications.

### **Areas of Focus**

1. Distribution of Embedded H/W & S/W products
2. System Integration & Development
3. Training

### **VISION:**

We envision to work hard sincerely & honestly to become a premier source of supply of hardware and software systems & development tools for Real-Time embedded systems applications.

*To maintain a long - lasting relationship with the principal companies in promoting their products through:*

- Product Training.
- Effective product campaigning.
- Extensive Demonstrations.
- Excellent technical support services
- System integration

**PRODUCTS:****I. INTEGRATED TELECOM SOLUTIONS:****1. MOTOROLA EMBEDDED COMMUNICATIONS COMPUTING:****([www.motorola.com/computers](http://www.motorola.com/computers))**

- ATCA Integrated Platforms
- Compact PCI (CPCI) Integrated Platforms
- High Availability Software Modules
- DSP Resource Boards
- VOIP & Media Gateways
- PMC cards
- VME Power PC cards
- Net Plane software

**2. PERFORMANCE TECHNOLOGIES: ([www.pt.com](http://www.pt.com))**

- Signalling Gateway Solutions
- Frame Relay
- Channel 7 (SS7)
- I/O & Communication products
- Radio Network Controller (RNC)
- Storage Blades
- Gigabit Ethernet Switches
- Media & Voice Processing Blades

**3. INTERPHASE CORPORATION: ([www.iphase.com](http://www.iphase.com))**

- Signalling Gateway Appliances
- CPCI Network Processor & Carrier cards
- Advanced TCA Blades & AMC cards
- T1/E1/J1 Communication Controller cards
- PCI/PMC ATM over OC-3/STM-1 card
- Frame Relay
- Channel 7 (SS7)
- Slot Optimizer Combo cards

**II. DATA ACQUISITION PRODUCTS:****1. TEWS TECHNOLOGIES ([www.tews.com](http://www.tews.com))**

- Variety of Embedded I/O products
- Industry Pack (IP) I/O cards
- PMC I/O cards
- PCI I/O cards
- CPCI Carrier cards
- PC/104 Plus Modules
- VME CPU boards
- Driver software for all major RTOS'es

**2. MANGO DSP ([www.mangodsp.com](http://www.mangodsp.com))**

- Harrier System with proc power of 2 Tera operations/sec
- DVR Surveillance Systems
- Video Over Packet Hardware Platform for 3G Wireless Base Stations
- Video Servers
- Conduction Cooled VME
- 19 Slot VME Rugged chassis
- Fingerprint Recognition system
- Video Conferencing system
- Radar/Sonar/Weapon Control application products

### **3. HUNT ENGINEERING LTD ([www.hunt-rtg.com](http://www.hunt-rtg.com))**

- Ready To Go Systems for FPGA Design Implementations
- Hi Speed USB Connected Fast Data Acquisition System
- USB Connected Embedded Power PC System
- USB Connected Digital I/O & FPGA System

### **4. D.SignT ([www.dsight.de](http://www.dsight.de))**

- DSP based Computer modules for stand-alone operations
- Daughter Modules for Data Acquisition & Networking
- DSK Ethernet Adapter Boards
- D. Module TCP/IP Stack
- TMS320C3x Floating Point Processor Boards
- TMS320C620x Floating Point Processor Boards
- TMS320C67xx Floating Point Processor Boards
- SHARC Floating Point Processor Boards

## **III. EDA TOOLS:**

### **1. SILVACO ([www.silvaco.com](http://www.silvaco.com))**

#### → TCAD Tools:

- a. Interactive / Automation tools
- b. Process Simulators
- c. General Device Simulators
- d. FET Device Simulators

#### → Analog & Mixed Signal:

- a. Analog Circuit Simulator
- b. RF Circuit Simulator
- c. Mixed Signal Simulator
- d. SPICE Model Extraction

#### → Custom IC CAD:

- a. Schematic Editor
- b. IC Layout Editor
- c. DRC/LVS/LPE Physical Verification

#### → Parasitic Extraction:

- a. Interconnect Characterization
- b. High Frequency Characterization
- c. Cell / Core Parasitics
- d. Full Chip Parasitics

#### → Logic Verification:

- a. Verilog Simulator
- b. Mixed Level Fault Simulator

## **2. SIMUCAD ([www.simucad.com](http://www.simucad.com))**

→ Circuit simulation and CAD software tools used for designing analog, mixed-signal, and RF integrated circuits.

→ Analog/Mixed-Signal/RF - Complete family of full-chip and circuit simulation products for analog, mixed-signal, and RF

→ Custom IC CAD - PDK-based design flow with schematic, layout, physical verification, and parasitic extraction

→ Interconnect Modeling - 3D physics-based interconnect modeling for passive components and interconnect parasitics

→ Digital CAD - Cell/core library characterization and Verilog simulation products

## **IV. GRAPHICS SOFTWARE MODELLING TOOLS:**

### **1. PRAGMA DEV ([www.pragmadev.com](http://www.pragmadev.com))**

→ World's leading provider of graphical software modeling tools based on SDL international standard with its Real Time Developer Studio (RTDS) set of tools.

→ It targets all development teams working with a **Real Time Operating System**. It answers the developers' needs in a market where 90% of the developments use no graphical tools.

→ Real Time Developer Studio G3 is the first commercial off the shelf tool supporting UML, SDL, and SDL-RT in the same environment. It targets all development teams working with a Real Time Operating System and goes through:

- Specification,
- Design,
- Code generation,
- Unitary testing,
- Conformance,
- Documentation.

→ MSC Tracer Graphical Tracing Tool based on ITU-T Message Sequence Chart and on OMG UML2.0 Sequence Diagram standards

## **V. TI DSP DEVELOPMENT TOOLS:**

### **1. TEXAS INSTRUMENTS ([www.ti.com](http://www.ti.com))**

- Code Composer Studio Platinum edition
- Evaluation Boards
- DSP Starter Kits
- Emulators

### **2. SPECTRUM DIGITAL ([www.spectrumdigital.com](http://www.spectrumdigital.com))**

- Code Composer Studio Platinum Edition
- Parallel Port, USB and PCI JTAG Emulators for all TI DSP processors
- Variable Voltage Pod Emulators
- Evaluation Modules
- DSP Starter Kits
- eZdsp Starter Kits
- OMAP Starter Kits

## **VI. PROTOCOL ANALYZERS & EXERCISERS:**

### **1. CATALYST ENTERPRISES ([www.getcatalyst.com](http://www.getcatalyst.com))**

- PCI Express x1, x4, x8 & x16
- PCI / PCI-X
- USB 1.x/2.x
- CPCI
- Wireless
- SAS / SATA
- Fiber Channel
- Adapters & Extenders
- OTG Exerciser, Performance Analysis, Device Emulation, Timing Analyzer, Protocol Error Detection, PCI Express Compliance Test Suite, Error Injector etc...

## **VII. REAL TIME OPERATING SYSTEMS (RTOS):**

### **1. CMX SYSTEMS ([www.cmx.com](http://www.cmx.com))**

- Royalty FREE RTOS
- Complete Source Provided to customers
- TCP/IP
- Flash File Systems
- Compilers
- Support for 8, 16,32, 64 bit microcontrollers, DSPs etc..

## **EMULATORS, COMPILERS, SIMULATORS, SOURCE LEVEL DEBUGGERS:**

### **1. 8 BIT MICROCONTROLLERS**

- **METALINK INC ([www.metalink.com](http://www.metalink.com)):** Emulators for 8051 (All makes), Keil, IAR Compiler support.
- **MICROTIME INC ([www.microtime.com.tw](http://www.microtime.com.tw)):** Emulators for 8051 and ARM 9, Pocket Emulators, ARM Evaluation Boards.

### **2. 32/64 BIT MICROCONTROLLERS/MICROPROCESSORS (68K,Power PC, MIPS, ARM, ColdFire, Intel Xscale)**

#### **→ WINDRIVER SYSTEMS ([www.windriver.com](http://www.windriver.com)):**

- a. WorkBench Developer Platform
- b. Source Level Debuggers
- c. BDM/JTAG Emulators
- d. Simulators
- e. Trace
- f. Evaluation Boards
- g. Diab Compiler

#### **→ AVOCET SYTEMS ([www.avocetsystems.com](http://www.avocetsystems.com))**

- a. Compiler
- b. Simulator
- c. Emulator
- d. Macro Assembler & Linker
- e. RTOS

## **VIII. STANDARDS BASED DEVELOPMENT TOOL KITS**

### **1. OSS NOKALVA ([www.oss.com](http://www.oss.com))**

- ASN.1 tools for C, C++, Java, C#
- Compiler and Go Library
- Lean Encoder/Decoder for for C, C++ and Java
- PER Encoding Analyzer
- ASN.1 Syntax Checker
- ASN.1 to XSD Translator
- BioFoundry Bio API / Bio API+
- BioFoundry Bio API-COM
- BioFoundry BSP Builder
- XSD Tools for C & C++
- XDS to ASN.1 Translator

### **CUSTOMERS:**

**MOTOROLA  
TEXAS INSTRUMENTS  
INTEL  
LUCENT  
INFINEON  
CONEXANT  
FLEXTRONICS  
WIPRO  
INFOSYS**

**SATYAM  
MENTOR GRAPHICS  
SOCRATES  
BPL  
EINFOCHIPS  
VISTEON  
ACCORD SOFTWARE  
SAMSUNG  
HP**

**ADA  
ADE  
BARC  
BEL  
CRL  
HAL  
IISc  
ISRO  
IITs**