

Product Engineering Services (PES) IPM Controller

L&T Infotech's Intelligent Platform Management (IPM) Controller package is fully compliant with the IPMI v2.0 (Intelligent Platform Management Interface version 2.0) specification. The primary function of the IPM controller is to monitor card health.

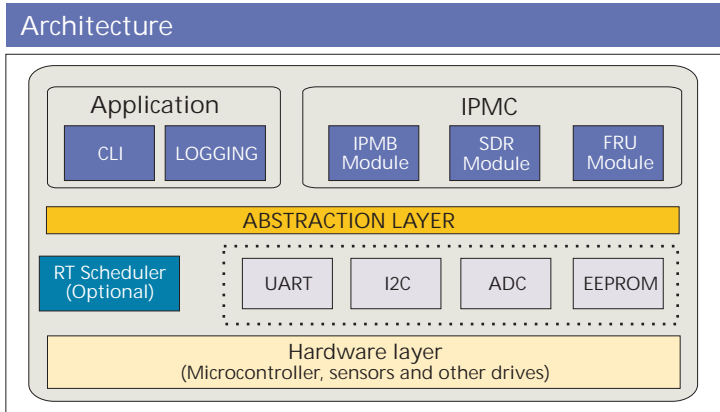
Apart from system health monitoring, the IPM controller also handles the IPMI messages from the shelf manager. This ensures proper IPMI state transitions during card boot up. The IPM controller also sends an event to the shelf manager in the case of sensors exceeding their threshold. The communication between IPM controller and the shelf manager is through the redundant IPMB (Intelligent Platform Management Bus) interface. The IPMC / MMC package comes with inventory, logging, and recovery control functions. It manages the shelf without main processor dependency, hence the platform management is available even if the main processor loses power.

Features

- Compliance with IPMI v2.0 Specification
- Compliance with Advanced TCA Card Specification
- Hardware Abstraction for easy migration (Hardware Agnostic)
- User Friendly GUI for configuration of FRU and SDR data
- Support for Multi Thread RTOS (ARTX from Kiel)
- Hot Swap support
- Redundancy support
- Power and Thermal Management Support
- M0 to M6 FRU state Support

Benefits

- Small foot print
- Portable across multiple Microcontrollers
- GCC tool chain support
- Simple to Use and mainly utility driven
- Quick Configuration Utility

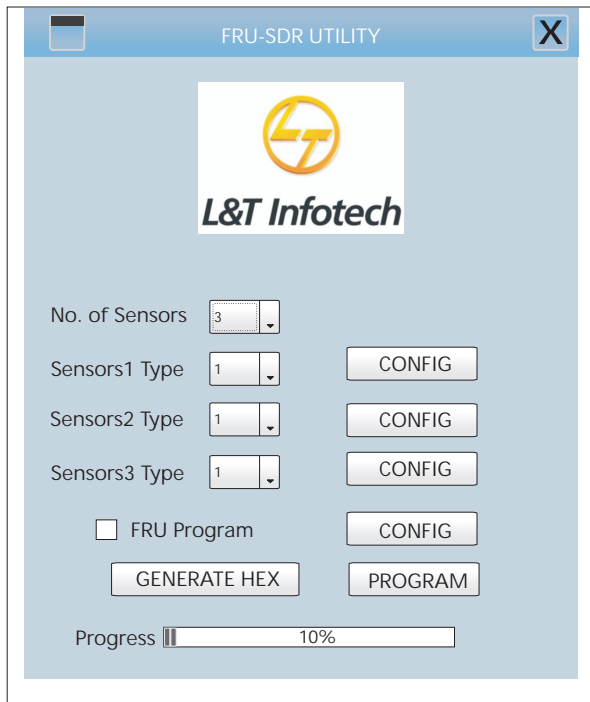


The Field Replaceable Unit (FRU) contains Inventory information such as the serial number, part number, asset tag, and short descriptive string for the FRU. The Sensor Data Record (SDR) holds information about management controllers and sensors detected in the system. IPMB module contains the mandatory and optional IPMI commands. Logging module takes care of storing all the important events in the Non-volatile memory which can be accessed using simple CLI commands. RT scheduler is an optional which supports the real time kernel functions like task scheduling, semaphore, events etc., I2C bus is used as communication channel between Shelf Manager and IPMC.

Customization

SDR and FRU Hex generation utility is used for generating Sensor record and field replaceable unit record for different hardware. This is done with minimal configuration and by clicking a button in the GUI.

Abstraction Layer for IPMC / MMC is provided to improve the portability of the platform for various microcontrollers.



BMC Features in roadmap

- IPMI Serial/Modem Interface
- LAN interface using RMCP
- PCI Management Bus Interface
- System Interface(KCS,SMIC,BT & SSIF)
- User login with enhanced authentication support
- User Account Management
- Message Handler Based Implementation
- Event Generator and Event Receiver
- Watch Dog Timer Support
- SDR Repository Interface
- FRU Information Interface
- Platform Event Filtering and Alert Policy Support
- Alert Processing support
- System Event Log Interface
- IPMB, ICMB interface support
- System Interface Support
- ATCA & IPMI command support
- vMedia support
- KVM Support

Deliverables

- Executable
- Open source tool chain
- SDR and FRU Hex Generation Utility
- SDR and FRU Programming utility
- User guides
- IPMC / MMC source code (Optional)

About L&T Infotech

Larsen & Toubro Infotech Ltd (L&T Infotech), one of the fastest growing IT services companies, is ranked 11th by NASSCOM among software & services exporters from India and also ranked among the 'Leaders' category in the prestigious Global 100 list released by the International Association of Outsourcing Professionals (IAOP). L&T Infotech is a wholly-owned subsidiary of US\$8.5 billion Larsen & Toubro Limited (L&T), India's Best Managed Company-2008 as per the survey conducted by Business Today-Ernst & Young. L&T is featured in the Forbes Asia Annual Fabulous 50 list.

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