Unit -I INTRODUCTION TOEMBEDDED SYSTEMS

1.4 Electronic instruments, such as industrial process controller

Electronic smart weight display system, and an industrial moisture recorder cum controller. Digital storage system for a signal wave form or Electric or Water Meter Reading

Computer networking systems,-for examples ,router ,front-end processor in a server, switch, bridge ,hub, and gateway

For Internet appliances, there are numerous application systems

- (i) Intelligentoperation, administration and mainten ancerouter (IOAMR) in a distributed network, and
- (ii) Mail Client card to store e-mail and personal addresses and to smartly connect to a modem or server

Banking systems-for examples ,Bank ATM and Credit card transactions

Signal Tracking Systems - for examples, an automatic signal tracker and a target tracker.

Communication systems, for examples, such as for a mobile-communication a SIM card a numeric pager, a cellular phone, a cable TV terminal, and a FAX transceiver with or without a graphic accelerator. Image Filtering, Games

A system Image Processing, Pattern Recognizer, Speech Processing and Video Processing.

Entertainment systems-such as videogame, music system and Video

that connects a pocket PC to the automobile driver mobile phone and awirelessreceiver.ThesystemthenconnectstoaremoteserverforInternetoremailortoremotecomputerat an ASP (application Service Provider).A personal information manager using frame buffers in hand-held devices.

Thin Client to provide the disk-less nodes with the remote boot capability.[Application of thin- clients is accesses to a data center from a number of nodes; or in an Internet LaboratoryaccessestotheInternetleasedlinethrougharemoteServer].EmbeddedFirewall/R EE8691 EMBEDDED SYSTEM

outerusingARM7/multi-

processor with two Ethernet interfaces and interfaces support to for PPP, TCP/IP and UDP protocols.

Sophisticated Applications

- Mobile Smart Phones and Computing systems
- Mobile computer
- Embedded systems for wireless LAN and convergent technology devices
- Embedded systems for Video ,Interactive video, broad band IPv6(InternetProtocolversion6) Internet and other products, real time video and speech or multi time dia processing systems
 - Embedded Interface and Networking systems using high speed (400 MHz plus), and ultra high speed (10 Gbps) and large bandwidth: Routers, LANs, switches and gateways ,SANs (Storage Area Networks), WANs (Wide Area Networks),Security products and High-speed Network security, Giga bit rate encryption rate products

OBSERVE OPTIMIZE OUTSPREAD

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