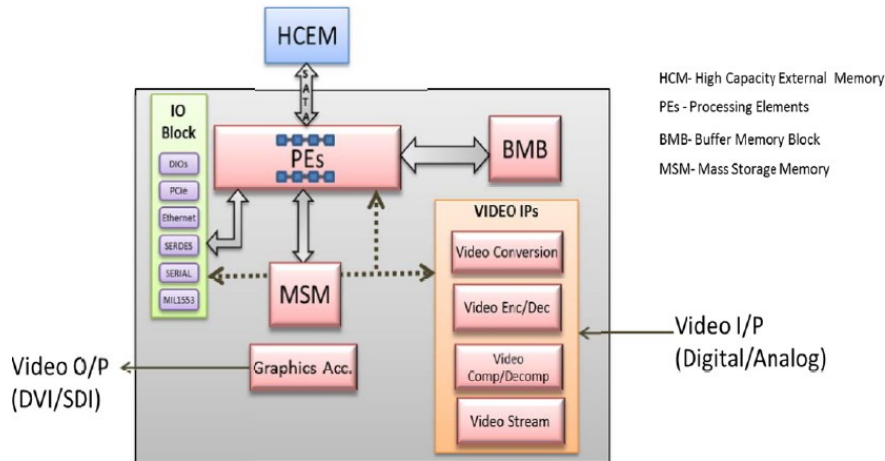


IMX.8 BASED COMPUTER- (ICS-3U03FMV)

DESCRIPTION:

Miniaturization of electronics modules by use of low power industrial devices and ruggedizing the hardware & software components designing application specific SoCs for different avionics application modules for control, navigation, audio and video recorder, backend electronics for display system as next generation avionics are going to be based on SoC having high number of processing core in single chip ruggedized module required for meeting the functionality of Digital Map Generation, Video Recording and Data Transfer LRUs. Support for industry standard RTOS approved for Level B Software requirements. RTOS such as VxWorks or any other RTOS / Kernel certifiable to Level B.



FEATURES:

- Digital Map Generation,
- Video Recording and Data Transfer
- Module based on SOC/FPGA such as iMx.8
- High Capacity Memory
- UART , PCIe , MIL1553B and Ethernet / SerDes
- Reliability Standard (MIL-STD-217FN2),
- RTOS approved for Level B Software requirements.
- RTOS such as VxWorks
- DDPMAS / IMTAR 21 defined by CEMILAC
- Graphics Library Support
- Built in Test

SPECIFICATIONS:

- Processor : iMx.8
- OS : Linux OS, Embedded Linux
- eMMC NAND Flash : 32 GByte
- Peripherals : UART, SPI , FLASH
- Interfaces : 1553B, Ethernet ,
- Video Standards : Composite PAL or RGB STANAG
- Certification : Certification DO-254 , DO-178
- Environmental : MILSTD-810
- Reliability Standard : MIL-STD-217FN2
- QA/Mil Grade : IMTAR-21 , DDPMAS;
CEMILAC/5390/1;
MIL-HDBK-217F
ARINC818

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