



## AVIONIC COMPONENTS NEWSLETTER JANUARY 2016

Other Manufacturers which offer Components for Avionic Applications Represented by Protec GmbH:

#### **HOLT Integrated Circuits:**

Avionic data bus products ARINC429, MIL-STD-1553, ARINC717, ARINC825 (CAN), RS422 / 485, Discrete to Digital, Switches

#### **Everspin:**

Non Volatile MRAM, which can replace man other Types of non-Volatile and also SRAMs

#### VPT:

DC-DC Converter and EMI Filters Hybrid technology for small size, light weight, maximum reliability. No derating necessary.

#### SMC:

Commercial Diodes 0.5A-50A, 50V-400V, up to 30KW in DO-41, DO15A-405, SMA, SMB, SMC and more, available with full Traceability und Screening for Avionic needs

#### **AEM Inc.:**

Fuses and Ferrite Chip Beads for noise, EMI and RFI suppression, both are EAR99 AEM also offers Tin Whisker mitigation

#### **Ultra Com.:**

Optical Receiver und Transmitter up to 12,5GBps / 4xRx and 4Tx in one Part

#### **Protec GmbH**

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# IMST GmbH – ASICs or FPGA Conversions for Avionic Applications DAL-A and DO-254

IMST offers "state of the art" Mixed Signal ASICs for avionic applications, the library elements are selected in such way, that they are able to provide a full set of useful circuit blocks, which are needed to build up a wide range of different ASICs.

IMST is designing the ASICs for *DAL-A, DO-254 level* (EA SA CM NO. EASA CM - SWCEH - 001 Issue No. 01)



#### **IMST Customer Support**

- Full Turn Key IC Design Solution
- Flexible Business Models
- IP Licensing Models
- Support of entire Product Development Flow
- Management of Design, Test, and Packaging

132- lead CQFP package example

#### **FPGA to Full Custom IC Design**

- IMST uses Xilinx and Altera FPGA systems
- IMST has got experience in transfer VHDL or Netlist data base into full ASIC design
- Adding e.g. I/Os, Memory, PLLs, ADC/ DACs to pure digital design
- IPs for such blocks are available for many process nodes

### **Foundry Processes**

- TSMC
- Globalfoundries/IBM
- ALTIS Semiconductor
- X-Fab
- IHP



#### **IMST** is member of EUROPRACTISE, MOSIS

- IMST can offer a broad range of advanced silicon technologies on a MPW basis
- Special agreements and support to IMST
- for small volume production by foundries
- Experience and IPs from 40nm, 55nm, 65nm, 90nm, 130nm, 180nm

