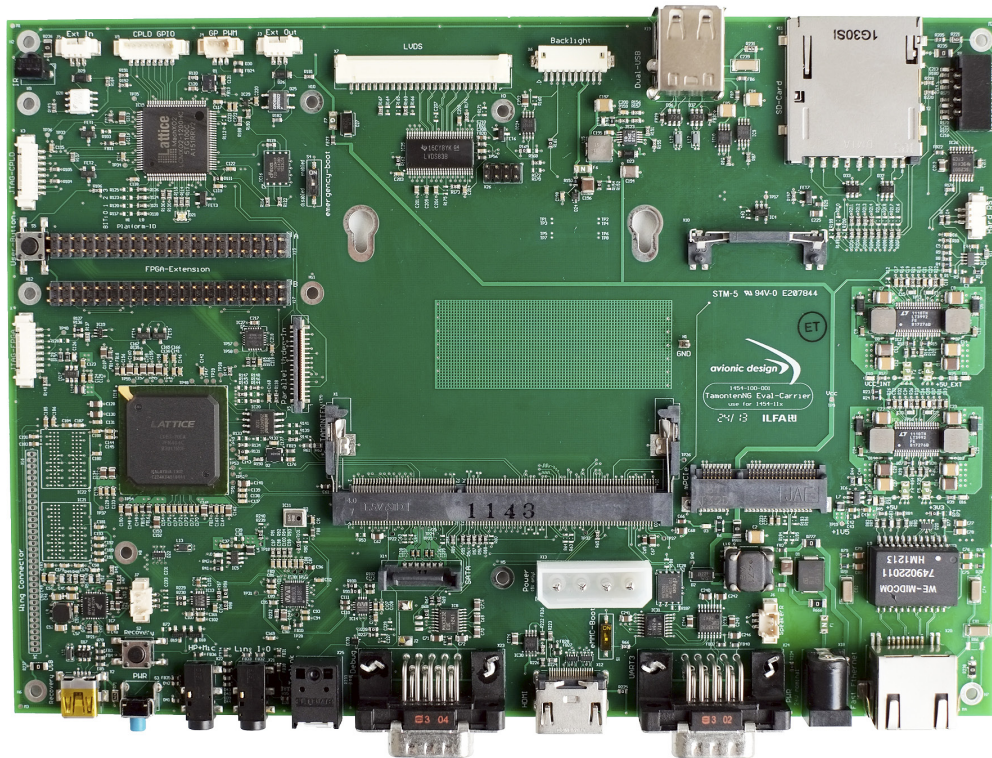




Avionic Design

Tamonten™ NG Eval Carrier (TEC)

evaluation carrier board for Tamonten™ NG processor module

1454-110-000

abstract

The Tamonten™ NG Eval Carrier is the customer reference platform which can be used as a basis for development.

It carries a Tamonten™ NG processor module, featuring the NVIDIA® Tegra™ 3 processor. The Tamonten™ NG Eval Carrier will help you evaluate the range of functions that the Tamonten™ NG processor module offers.

main components

- Tamonten™ NG processor module slot
- CPLD
 - Lattice MACHXO2-1200™
- FPGA
 - Lattice ECP3-70™
- Audio codec
 - Wolfson microelectronics: WM8903
- Touch (resistive)
 - Texas Instruments: TSC2007
- Ethernet
 - SMSC: LAN951x
- Inertial sensor
 - InvenSense Inc: MPU-6000
- Amplifier speaker left/right
 - Wolfson microelectronics: WM9001
- Ext out
 - CLARE: CPC1018N
- Ext in
 - Motorola: MOCD217

features

- prepared for demanding industrial, automotive and avionic applications
- wide range input power supply (12-24 V by default), withstands 60V
- designed with EMI and ESD in mind
- ultra-low power consumption
- all interfaces of the Tamonten processor module put to a use
- compatible with NVIDIA® reference platform + „CardHu“

interfaces available Edge-Connector:

- 2 x dedicated GPIO
- >100 x shared GPIO
- 1 x SATA
- 1 x HDMI
- 1 x LCD (24bit)
- 1 x DDC (I2C)

- 4 lanes PCIe
- 3 x USB host
- 1 x USB client
- 1 x HSIC
- 4 x I2C
- 1x Video IN (BT656)
- 3 x RS232
- 1 x HSMC
- 1 x Audio (I2S)
- 2 x SPDIF
- 1 x Ethernet (100MBit)
- 1 x SDIO
- + PWR/Status

Via (optional) On-COM-Connectors:

- Serial Video Capturing
- 4 x MIPI CSI
 - I2S
 - I2C
- Debug
 - JTAG
 - UART

interfaces



company information

- founded 2001
- 60 employees
- 15 development engineers
- 575 m² office space
- 800 m² production area

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