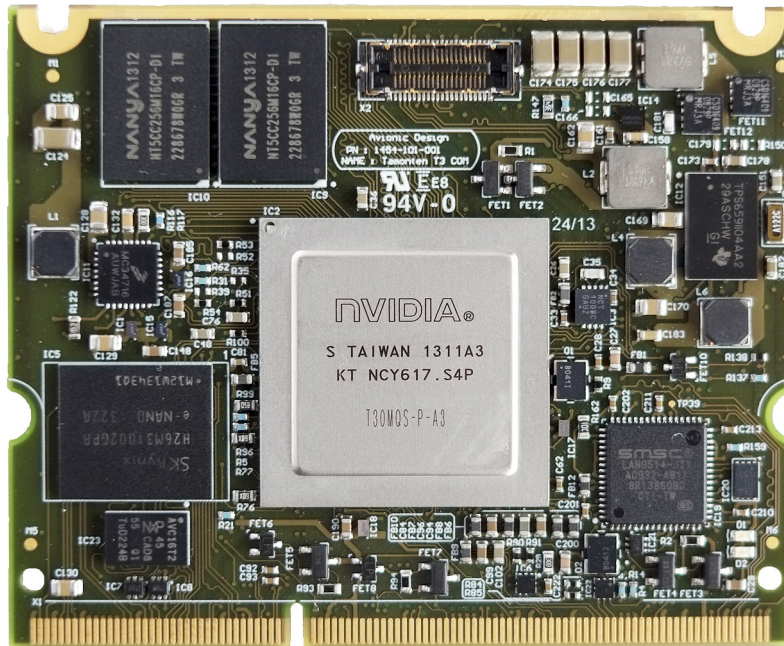




Avionic Design

Tamonten™ NG Processor Module

so-dimm computer on a module (COM) with NVIDIA® Tegra™ 3

1454-111-000

abstract

The Tamonten™ NG processor module is the only ultra low power and high performance multimedia platform on the market prepared for demanding embedded avionic and industrial operation.

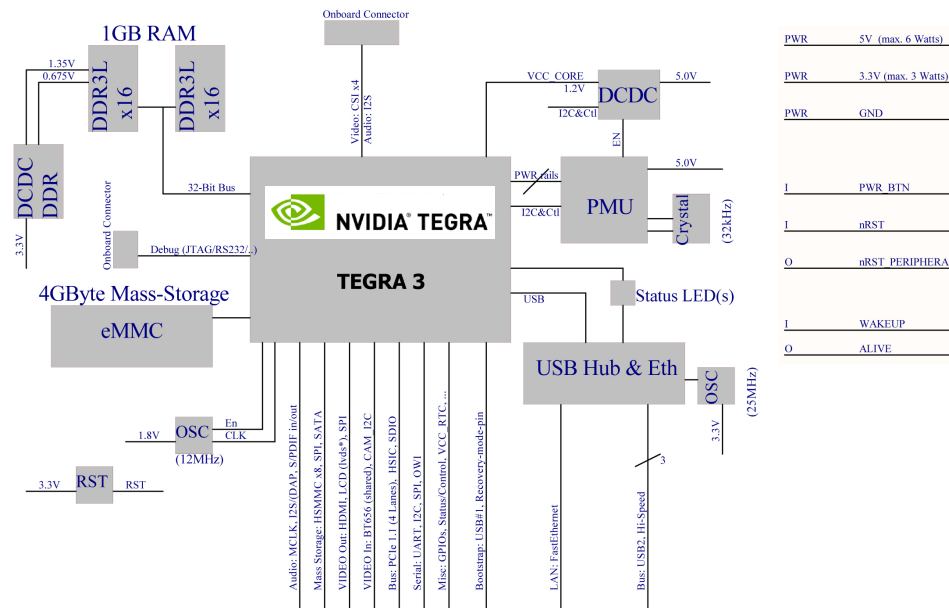
Based on the NVIDIA® Tegra™ 3, it was designed with maximum reliability and flexibility in mind, yet it is very cost effective.

The processor-boards are manufactured in a tightly controlled process, complying with most rigorous quality assurance requirements from our avionic industry OEM partners.

features

- Tamonten™ NG formfactor and pinning
- double height SO-Dimm (67.6 mm x 55 mm)
- compatible with previous Tamonten™ board pinouts
-  POWERED BY
NVIDIA® TEGRA™
 - ARM® Cortex™-A9 MPCore™
 - FPU: ARM® NEON™
 - quad core (+ one low power companion core)
 - 4x up to 1.4GHz
 - powerful 3D embedded GPU on-die
- 1GB ultra-high-speed DDR3L memory (2GB option available)
- 4GB eMMC
- advanced Audio and Video decoding capabilities
 - FullHD decoding incl. High Profile for BluRay™ etc.
 - FullHD capturing and encoding
 - OpenGL ES graphics
- State-of-the-art power saving
 - sleep mode
 - low power ARM core
- various BSPs available
 - Linux
 - *Android
 - *Windows

Board Overview



- 100Mbit Ethernet on-board
- 4x standard I2C
- 1x HSIC
- 3x standard USB 2.0 hosts
- 1x standard USB 2.0 client (configurable as host)
- 1x standard SATA
- 1x standard SD/MMC (8 bit)
- 3x UART
- 1x Debug UART
- 4x PCIe lanes
- 1x S/PDIF In/Out
- 1x BT656 Camera In
- 1x 100 Mbit Ethernet
- 1x HDMI 1.4a:
 - Output up to 1080p60 (1920x1080)
- 1x LCD:
 - Output up to 24 bit RGB
 - Max. Resolution: 2048x1536
- 1x I2S/DAP audio interface
- x4 MIPI-CSI + I2S via separate connector
- JTAG debug + UART via separate connector

interfaces



company information

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

address

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