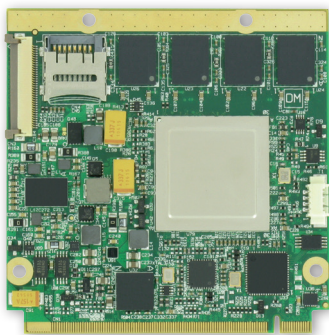




Q7-922

Qseven® standard module with NVIDIA® Tegra® T30 Processor

High performance graphics, low power solution



HIGHLIGHTS

CPU ARM® CORTEX -A9 Quad MPCore® CPU, 1.3 GHz per core	CONNECTIVITY 6x USB 2.0
GRAPHICS NVIDIA GeForce Ultra low power GPU	MEMORY up to 2GB DDR3L on-board soldered memory



DEVELOPMENT SAMPLING **PRODUCTION**

MAIN FIELDS OF APPLICATION



Digital Signage - Infotainment



Gaming



Thin client

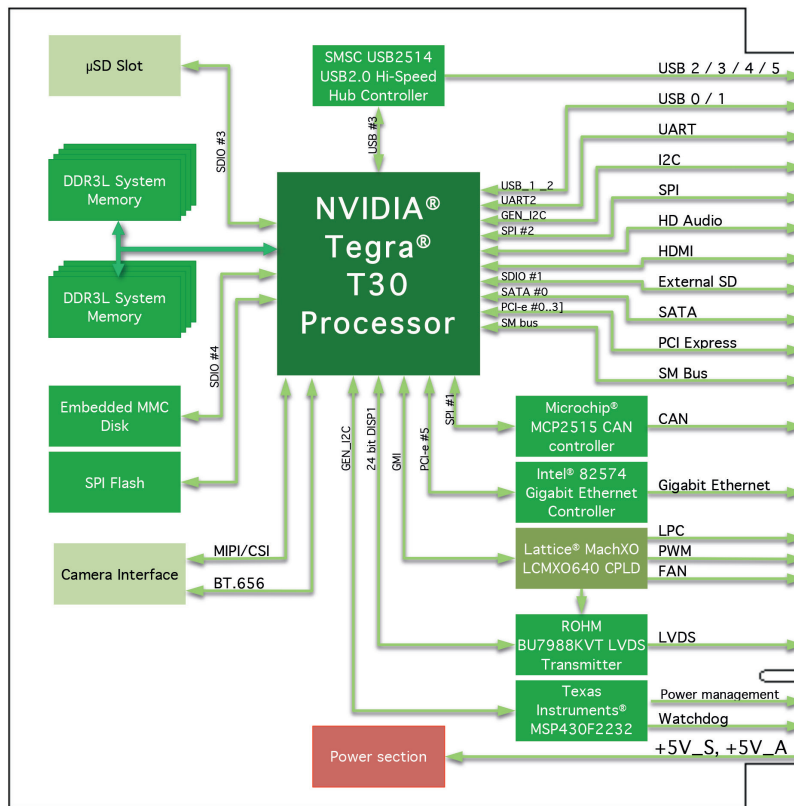
FEATURES

Processor	NVIDIA® Tegra® T30 with Quad ARM® CORTEX-A9 MPCore® CPU, 1.3GHz per Core	Other Interfaces	I2C, SM Bus, LPC, SPI One Wire Interface Thermal Cooling Interface Power management signals
Max Cores	4	Power Supply	+5V _{DC} ± 5%
Memory	Up to 2 GB DDR3 on-board soldered memory	Operating System	Linux
Graphics	Embedded NVIDIA® ULP GeForce® GPU Integrated High Definition Audio-Video Processor Dual independent display support	Operating Temperature*	0°C ÷ +60°C (Commercial version) -20°C ÷ +70°C (Extended version)
Video Interfaces	LVDS Single / Dual Channel 18 / 24 Bit interface HDMI 1.4a Interface Video Input Port / Camera Connector	Dimensions	70 x 70 mm (2.76" x 2.76")
Video Resolution	HDMI: up to 1920 x 1080p LVDS: up to 2048 x 1536	*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.	
Mass Storage	Up to 16 GB on-board soldered eMMC drive 1 x SATA Channel microSD Slot on-board 4-bit SD / MMC interface		
Networking	Gigabit Ethernet interface		
USB	6 x USB 2.0 Host ports		
PCI-e	1 x PCI-e x4 lane, or 2 x PCI-e x2 lanes (with support for 2 x PCI-e x1 devices)		
Audio	HD Audio Interface		
Serial Ports	2 serial ports (Tx, Rx signals) CAN Bus Interface		

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BLOCK DIAGRAM



ORDERING INFORMATION

PN*	DESCRIPTION
Q922-1210-1000-C0	Nvidia Tegra T30 @1.3GHz, 2GB RAM, eMMC 4GB, CAN Controller (Commercial temp.)
Q922-1210-1000-E0	Nvidia Tegra T30 @1.3GHz, 2GB RAM, eMMC 4GB, CAN Controller, (Extended temperature -20°C to 70°C)

*Additional configurations may be available. Please inquire for more information.

ACCESSORIES

PN	DESCRIPTION
QA42-0000-2111-I0	Carrier Board for Qseven® rel. 2.0 Compliant modules on 3.5" Form factor - HDMI - 2nd Ethernet Port - LVDS - Debug Port
QA42-Q7XSK-2100	Q7 - Cross Platform Starter Kit 2.0 - HDMI - LVDS, 7" touch display included
Q922-DISS-1-PK	Heat Spreader (PASSIVE)
Q922-DISS-2-PK	Heat Sink (PASSIVE)