

NEMBUS

µQseven® standard module with NXP i.MX 6 Processors

Small, flexibile OTS module at proprietary costs











2D/3D dedicated graphics processors















MAIN FIELDS OF APPLICATION

Audio

I2S / AC'97 Audio interface







HMI

PDA Electronics

Wireless Technologies

in the range indicated.

NXP i.MX 6 Family, based on Arm® CORTEX-A9 processors On the card edge connector, many pins can be used as Processor - i.MX6S Solo - Single core up to 1GHz General Purpose I / Os or to implement some(*) of the i.MX6DL Dual Lite - Dual core up to 1GHz per core following extra functionalities: Additional SD interface Max Cores - Up to 4 UARTs CAN interface Up to 1GB DDR3L on-board (up to 512MB with i.MX6S Solo) Other Memory Watchdog(s) 32-bit I/F Interfaces - I2C interfaces Dedicated 2D Hardware accelerator - PWM outputs Graphics Dedicated 3D Hardware accelerator, supports OpenGL® ES2.0 3D - SPI interface Supports 2 independent displays - Additional Audio interface (*) not all the combinations are allowed simultaneously 1 x LVDS Dual Channel or 2 x LVDS Single Channel 18 / 24 bit Video Power Management Signals interface Interfaces **HDMI** Interface Power $+5V_{DC} \pm 5\%$ Supply Optional Low Power RTC LVDS, resolution up to 1920x1200 Video Resolution HDMI, resolution up to 1080p Operating On-board eMMC drive, up to 8 GB System SD / MMC / SDIO interface Internal SPI Flash for booting Mass Storage $0^{\circ}\text{C} \div +60 ^{\circ}\text{C}$ (Commercial temp.) Operating Temperature* -40°C ÷ +85°C (Industrial version) FastEthernet (10 / 100 Mbps) interface 品 Networking 40 x 70 mm (1.57" x 2.76") Dimensions 1 x USB OTG interface *Measured at any point of SECO standard heatspreader for this product, during • ✓ USB 1 x USB 2.0 Host interface any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-PCI-e 1 x PCI-e x1 lane (only PCI-e 1.1 and Gen2 are supported) specific cooling solutions for the final system to keep the heatspreader temperature



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RLOCK DIAGRAM



