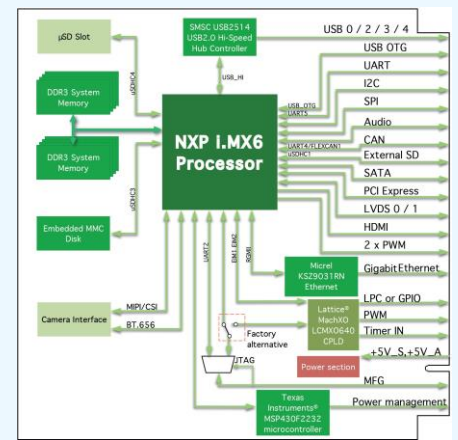


Product Name: Q7-928



<p>Highlights</p>	<ul style="list-style-type: none"> • A scalable multi-core ARM® Cortex™-A9 architecture in Qseven® standard modular form factor • Combines high-graphics performance with power-efficient processing capabilities • Enhanced 2D and 3D graphics with i.MX6DP • OpenGL (FULL) and OpenGL ES 2.0 3D Graphics supporting up to 3 independent displays (only up to 2 displays with i.MX6DL and i.MX6S) • Flexible resolution: from multi-display platforms to mobile fanless applications
<p>Part Number</p>	<p>Q7-928</p>
<p>Main Fields of Application</p>	<ul style="list-style-type: none"> • Industrial Automation and control • Digital Signage and Infotainment • Automotive • Avionics • Energy • Surveillance • Transportation • Robotics
<p>Processor</p>	<p>NXP i.MX6 Family, based on ARM® CORTEX-A9 processors</p> <ul style="list-style-type: none"> • i.MX6S Solo - Single core up to 1GHz • i.MX6DL Dual Lite - Dual core up to 1GHz per core • i.MX6D Dual - Dual core up to 1GHz per core • i.MX6DP Dual Plus - Dual core up to 1GHz per core • i.MX6Q Quad - Quad core up to 1GHz per core
<p>Max Cores</p>	<p>4</p>
<p>Memory</p>	<p>Up to 4GB DDR3L on-board (up to 2GB with i.MX6S)</p>
<p>Graphics</p>	<p>Dedicated 2D Hardware accelerator Dedicated 3D Hardware accelerator, supports OpenGL® ES 2.0 3D Dedicated Vector Graphics accelerator supports OpenVG™ (only i.MX6D, i.MX6DP and i.MX6Q) Enhanced 2D and 3D graphics with i.MX6DP Supports up to 3 independent displays with i.MX6D, i.MX6DP and i.MX6Q Supports 2 independent displays with i.MX6DL and i.MX6S</p>
<p>Video Interface</p>	<p>1 x LVDS Dual Channel or 2 x LVDS Single Channel 18 / 24 bit interface HDMI Interface 1.4 Video Input Port / Camera Connector</p>
<p>Video Resolution</p>	<p>LVDS up to 1920x1200 HDMI, up to 1080p</p>
<p>Mass Storage</p>	<p>On-board eMMC drive, up to 32 GB SD / MMC / SDIO interface 1 x µSD Card Slot on-board 1 x External SATA Channel (only available with i.MX6D and i.MX6Q)</p>



Networking	Gigabit Ethernet interface
USB	1 x USB OTG interface 4 x USB 2.0 Host
PCI-e	1 x PCI-e x1 lane (only PCI-e 1.1 and Gen2 are supported)
Audio	AC'97 Audio interface I2S
Serial Ports	2 x Serial ports (TTL interface) CAN port interface
Power Supply	+5V _{DC} ± 5%
Operating System	Linux Yocto Microsoft® Windows Embedded Compact 7
Operating Temperature	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
Dimensions	70 x 70 mm (2.76" x 2.76")