



ArcticEdge/iMX6

Product Name: ArcticEdge/iMX6
Part Number: ELG001

Connect Tech's ArcticEdge/iMX6 will twist your ARM beyond the average development board. ArcticEdge's low-power, high performance design and extended temperature range make it a practical choice for taking your application from the developer's desk into the field.

The i.MX6Q 800MHz Cortex-A9 processor gives the reliability needed for long life critical applications.



Specifications			
Processor	CPU Model	Freescale i.MX.6	
	CPU Technology	Cortex A9	
	CPU Cores	4	
	CPU Clock Speed	800MHz	
	Instruction Cache	32KB per Core	
	Data Cache	32KB per Core	
	Unified I/D L2 Cache	1MB shared by Cores	
	Coprocessor	NEON Media Processor per Core	
Graphics	<ul style="list-style-type: none"> OpenGL ES 2.0 3D acceleration with 4 shaders (up to 200MT/s), OpenCL, 2D accelerator and OpenVG™ 1.1 hardware acceleration Full 1080p encode/decode supporting multiple high resolution video inputs/outputs simultaneously Hardware Accelerators: VPU – Video Processing Unit, IPUv3H – Image Processing Unit version 3H (2 IPUs) GPU3Dv4 – 3D Graphics Processing Unit (OpenGL ES 2.0) version 4 GPU2Dv2 – 2D Graphics Processing Unit (BitBlt) GPUVG – OpenVG 1.1 Graphics Processing Unit ASRC – Asynchronous Sample Rate Converter Primary Display: HDMI 1.4 / TMDS Secondary Display: 18/24 bit LVDS with I2C/USB Touchscreen Interface 		
	Operating System Support		
	Linux and Android, Image and Source download available through Connect Tech's Development Center		
	Memory	Technology	DDR3
		Speed	1066 (533MHz)
		Capacities	1GB, 2GB option
		Bus Width	64-bit
Gigabit Ethernet	1		
Audio	1 x Output (w/ headphone amplification)		
USB Host	4 (2 x Dual stacked Type-A connector, 2 x rugged latching header)		
USB OTG / Client	1		
RS-232 Ports	2		
Micro SD	2		
Wireless	Integrated WiFi IEEE 802.11 b/g/n Integrated Bluetooth® 2.1+EDR Class 1.5 & Bluetooth® 4.0 BLE		
Boot loader	u-boot ships on internal 32Mbit SPI Flash		
Input Power	+5V only		
Power Consumption	Typical <5W		
Form Factor	72 x 100 mm (PicoITX)		
Temperature Range	-40°C to +85°C (ArcticEdge uses Freescale Automotive Grade CPU)		

FEATURES

- ✓ *HDMI and LVDS Display Outputs*
- ✓ *i.MX6 Quad Core 800MHz ARM Cortex-A9 Processor*
- ✓ *Linux and Android BSP's Available*
- ✓ *Extended Temperature Range -40° C to +85° C*



Specifications subject to change without notice.
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