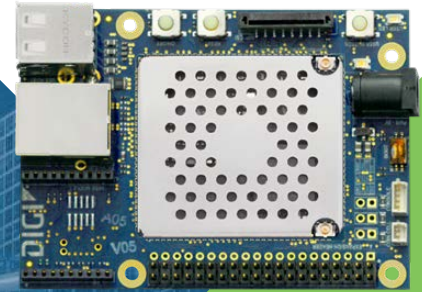




COMING IN 2018

INTRODUCING CONNECTCORE 8X

CONNECTED INTELLIGENCE



EMBEDDED TECHNOLOGY FOR WHAT'S NEXT

Digi continues to be at the forefront of delivering embedded technology tailored to the needs of industrial and medical device manufacturers. As the next generation member in the Digi ConnectCore® family, built on NXP's new i.MX 8X application processor, the Digi ConnectCore 8X provides a complete and secure system platform to build connected intelligent devices.

- Industrial i.MX 8X dual/quad core SOM and SBC
- Digi SMTplus® form factor (40 x 45 mm) for ultimate reliability and design freedom
- Multi-display and camera capabilities with hardware acceleration
- Pre-certified dual-band 802.11ac 2x2 and Bluetooth 4.2 connectivity
- Seamless cellular modem and Digi XBee® connectivity integration
- Cloud and compute services integration
- Digi TrustFence® device security built in
- Yocto Project Linux and Android support

CORE COMPLEX 1	CORE COMPLEX 2	CONNECTIVITY	
<ul style="list-style-type: none"> 2-4 x ARM® Cortex®-A35 32 KB I-cache 32 KB D-cache 512 KB L2 cache with ECC 	<ul style="list-style-type: none"> Cortex-M4F 16 KB I-cache 16 KB D-cache 256 KB SRAM 1 x I²C 1 x UART 6 x GPIO 1 x TPM Timer 	<ul style="list-style-type: none"> 4 x UART 8 x I²C 4 x SPI 1 or 2 x 1 Gbit Ethernet AVB 1 x 10/100 Ethernet 3.3 V/1.8 V GPIO PCIe 3.0 with L1 Substate-1-lane 1 x USB3 OTG w/PHY 1 or 2 x USB2 OTG w/PHY 3 x CAN/CAN FD MOST 25/50 4 x 4 Keypad 4 x PWM 1 x 12-bit ADC 2 x ASRC, SPDIF 4 x SAI, ESAI, MQS 	<ul style="list-style-type: none"> PMIC eMMC DDRx 802.11ac 2x2 Bluetooth 4/5 Micro-controller Assist™ Secure Element
MULTIMEDIA GPU 1 x 2- or 4-Shader, OpenGL ES 3.0 or 3.1 3.1, Vulkan® VX Extensions VPU Video: h.265 dec 4k, h.264 enc/dec 1080p AUDIO DSP CORE Tensilica® HiFi 4 32 KB I 48 KB D 64 KB TSM 512 KB SRAM	MEMORY DDR3L @ 933 MHz (ECC option)/ LPDDR4 @ 1200 MHz (no ECC) 2 x SDIO3.0/eMMC5.1 RAW NAND-BCH62 2 x Quad/1 x Octal SPI		
DISPLAY AND CAMERA I/O Display Processor with SafeAssure® 2 x MIPI-DSI/LVDS Combo PHY* 1 x Parallel Display 1 x Parallel CSI 1 x MIPI CSI	SECURITY HAB, SRTC, SJTAG, TrustZone® AES256, RSA4096, SHA-256 3DES, ARC4, MD-5 Flashless SHE, ECC Tamper, Inline Enc Engine		
	SYSTEM CONTROL Power Control, Clocks, Reset BootROMs PMIC interface (dedicated I²C) Domain Resource Partitioning		

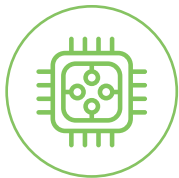
* Each single PHY can either be a 1 x 4 lane MIPI-DSI or a 1 x 1 channel LVDS interface for a total of 2 display interfaces. In combination, the two PHYs can be configured to be a single 2-channel LVDS interface.





NEXT GENERATION IOT EDGE INTELLIGENCE

Digi removes the complexity of IoT integration by delivering a complete system for secure next-generation cloud and compute services enablement, including AWS IoT, AWS Greengrass, and AWS microservices integration.



DIGI SMTPLUS®: SMALLEST SIZE, NO COMPROMISE

Unique, patent-pending form factor simplifies and reduces costs while increasing manufacturing flexibility with LGA or castellated edge vias mounting options. Digi SMTplus allows builders to reduce carrier-board layer count for simpler applications and eliminates the need for board connectors.



IT'S ALL ABOUT CONNECTIVITY

Digi ConnectCore 8X is the intelligent communication engine for today's secure connected devices. It seamlessly integrates dual-band Wi-Fi (802.11ac), dual gigabit Ethernet, Bluetooth Smart Ready connectivity, and is ready for cellular modem and Digi XBee integration right out of the box.



BUILT FOR DEMANDING APPLICATIONS

Digi ConnectCore 8X is built for reliability in medical, transportation, security, building automation, and industrial applications including IEC 60068 transportation certifications, IEC 60601 certifications, HALT, making it ideal for use in highly regulated industries.

DIGI TRUSTFENCE®: INDUSTRY-LEADING DEVICE SECURITY, BUILT IN

Device security is a critical design aspect for every connected device. The Digi ConnectCore 8X combines a secure module platform with a complete embedded device security framework. Build products today that deliver security and peace of mind now and in the future.

- SECURE CONNECTIONS
- AUTHENTICATED BOOT
- SECURE SOFTWARE UPDATES
- CERTIFICATE MANAGEMENT
- ENCRYPTED DATA STORAGE
- ACCESS-CONTROLLED PORTS
- DEDICATED SECURITY CO-PROCESSOR



Expect more.
Contact us and sign
up for updates.

[DIGI.COM/CC8X](https://www.digi.com/cc8x)