

Overview

CENTAURI 200 IoT Gateway Development Board is specifically crafted to meet all the needs of Enterprise/Industrial IoT Gateway Solutions. The gateway is built on a secure, power-efficient, and cost-optimized ARM® Cortex®-A7 based i.MX6UL/6ULL/6ULZ SoC, enabling greater flexibility in providing various RF connectivities and peripherals to create tailor-made solutions according to end-user needs. ACL Digital also offers the CENTAURI Software Framework for all OEMs to quickly build applications. The CENTAURI Gateway Development Board is pre-integrated with well-known cloud & app platform providers to help OEMs develop applications faster. OEMs can build Zigbee, Z-Wave, IEEE 802.15.1, Matter, and Thread gateway-based solutions on the platform with any two radios supported at a time. The CENTAURI Gateway Development Board is available under OEM offerings to reduce time to market, allowing you to focus more on creating value in end-user applications.

Powerful Processor: ARM® Cortex® A7 Core

Modular Design:mikroBUSTM Compatible Connectivity LinuxOS Support:Yocto, CENTAURI Framework, Docker*, and

OpenWrt*

Wireless Connectivity: Zigbee®, Z-Wave, IEEE 802.15.1, Thread &

Matter Protocol

Wired Connectivity: Ethernet, RS485/RS232, and CAN Cloud Connectivity: Wi-Fi, LTE Cat M1/NB2/NB1/EGPRS

Cloud Integration: IoTify, AWS IoT, Ayla Networks, IBM BlueMix*,

and Microsoft Azure*

LED & Button: Programmable for Custom Interface
Security: A7101CHTK2 Based Hardware Encryption







Faster Time to Market



Lower Cost of Ownership



Support

Target Applications

- Smart Industrial Automation
- Smart Asset Tracking
- Smart Building Management
- Smart Healthcare

- Smart Hospitality
- Smart Home Automation

CENTAURI Software Framework

Business Applications	Building Automation		Smart Healthcare		Smart Retail	Smart Hospitality			Asset Tracking		Industrial Automation		Smart Agriculture
IoT Core	Devid	e Provi	isioning	С	Device Ma	nage	er (ATC		Config Cloud Ager			
Platform Software	MQTT CoAP Lib Lib			Field Protocols		ectivity nager VF		Cryp	to			/O rol Lib	Device Discovery
	Network Interface		Serial Interface		File System	Crypto Driver			CAN Interface		USB Interface		GPIO Interface
Hardware	CENTAURI Gateway Development Board												

CENTAURI Software Framework extends major strategic advantages to OEM customers.

- Modular Services: Utilize services based on the customer's requirements to optimize resources.
- Business Application Templates: Enable quick app development using pre-built templates.
- Uniform API: Facilitates the customer's work on multiple connectivity protocols with ease.
- Development Models: Build applications on top of the basic platform or leverage IoT Core libraries for faster development.

Technical Specifications

CPU	Processor: Technology: OS Support:	i.MX6UL/6ULL/6ULZ(528 MHz to 900 MHz) ARM® Cortex®-A7 Yocto Warrior Linux, CENTAURI Framework, Node JS, Python, Docker, OpenWRT*	Memory	Data (DDR3L): Program Memory:	256MB (Upgradable to 1GB) 128MB NAND Flash (Upgradable to 4GB) or 4GB eMMC (Upgradable to 32GB)		
(((a))) Radio	Thread (^): Zigbee®(^): Z-Wave (^): IEEE 802.15.1: Wi-Fi:	NXP KW41Z NXP JN5169/79/Silabs EFR32MG12P / Silabs MGM210P Silabs ZGM130S(700 Series) Nordic nRF52840 Broadcom Wi-Fi 802.11 b/g/n And IEEE 802.15.1 or Broadcom Wi-Fi 802.11a/b/g/n/ ac And IEEE 802.15.1	I/O Interfaces	USB: CAN: RS485/RS232: LED: User Button: Ethernet:	Type-A USB Host or Device Yes Yes (Any one) 2 LEDs (Programmable), 1 LED (Power) 2 Buttons (Programmable) 2 Ports 10/100 Mbps (1 Port POE)		
Interfaces	LTE:	Quectel EG91 (IoT/M2M Optimized LTE Cat 1) or Quectel BG95 (LTE Cat M1/Cat NB2/EGPRS) or Quectel BG96 (LTE Cat M1/Cat NB1/EGPRS) or Quectel EG95 (LTE Cat1) or Quectel EG95-NA LTE (CAT 4)	Electric	DC Power: Terminal: POE:	Input: 5V DC Current – Maximum: 3A 9V to 27V 802.3af		
Connectivity	Cloud: Compatible: Dimensions:	loTify, AWS IoT, Ayla Networks, IBM BlueMix*, and Microsoft Azure* Any other MQTT or CoAP based cloud (150 L x 100 W x 30 H)mm	Security	Software:	SNVS, Trust Zone, and Secure Boot (HABv4) A7101CHTK2 (Encryption)		
General	Weight: Temperature: Mounting: IP Rating:	304 gm (0.67 lbs) Commercial (0°C to +60°C) and Industrial (-20°C to +75°C) Desktop, Wall, and DIN rail IP 41 or IP 65	Certification	ROHS, REACH CE,FCC,IC,UL LTE carrier	Compliant Pre-certified (Formal Certification Pending) Verizon Cat 1/Cat M1 for USA		

Note: "^" - Maximum two radios from this list

ACL Digital is a design-led Digital Experience, Product Innovation, Engineering and Enterprise IT offerings leader. From strategy, to design, implementation and management we help accelerate innovation and transform businesses. ACL Digital is a part of ALTEN group, a leader in technology consulting and engineering services.

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