

# CENT/URI 200

Enterprise/Industrial IoT Gateway Powered by CENT/IURI Software Framework



#### **Overview**

CENTAURI 200 IoT Gateway platform 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 platform is pre-integrated with well-known cloud & app platform providers to help OEMs develop applications faster. OEMs can build Zigbee, Z-Wave, BLE 5.0, Matter, and Thread gateway-based solutions on the platform with any two radios supported at a time. The CENTAURI Gateway platform is available under OEM offerings to reduce time to market, allowing you to focus more on creating value in end-user applications.

### **Feature Highlights**

**Powerful Processor:** ARM® Cortex® A7 Core

**Modular Design:** mikroBUSTM Compatible Connectivity

Linux Yocto, CENTAURI Framework, Docker\*, **OS Support:** 

and OpenWrt\*

**Wireless Connectivity:** Zigbee®, Z-Wave, BLE Mesh, Thread & Matter

Protocol

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

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

and Microsoft Azure\*

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



Solution



**Faster Time** to Market



**Lower Cost of Ownership** 



## **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 rackin		Industrial Automation		Smart Agriculture
IoT Core	Devid	e Prov	risioning		Device Ma	nage	er (	OTA		Config			oud Agent
Platform Software	MQTT Lib			Field Protocols		Connectivity Manager		Cry	ypto	Json Lib	I/O Control Lib		Device Discovery
	Network Interface		Serial Interface		File System	Crypto Driver			CAN terfac	e Ir	USB Interface		GPIO Interface
Hardware	CENTAURI Hardware Platform												

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 (^): BLE 5.0 (^): 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 Bluetooth 4.0 or Broadcom Wi-Fi 802.11a/b/g/n/ac And Bluetooth 5.0	I/O Interfaces	LED:	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.

USA | UK | France | India 🕑 🚺 in



