

NXP  
LAYERSCAPE  
LX2160A FAMILY

ClearFog ITX

Cutting-Edge Layerscape 16 Core Network Computing  
2019 March

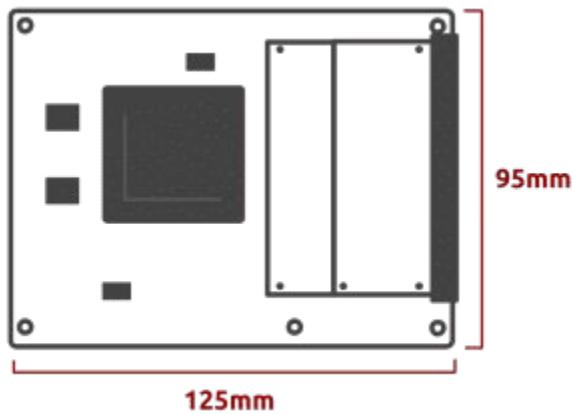
# ClearFog ITX

COM Express Type 7 form factor

ClearFog ITX



# CEx7 LX2K COM Express type 7 module



# ClearFog ITX based on LX2K



## Performance

CEx7 LX2K COM sets a new standard of network computing power with **NXP's 16 core Arm Cortex A72, up to 100GbE and dual DDR4 up to 64GB.**



## Software Defined Networking

The CEx7 LX2K COM is fully supported under Linux. This provides customers the speed and agility to add, customize and integrate 3rd party software stacks.

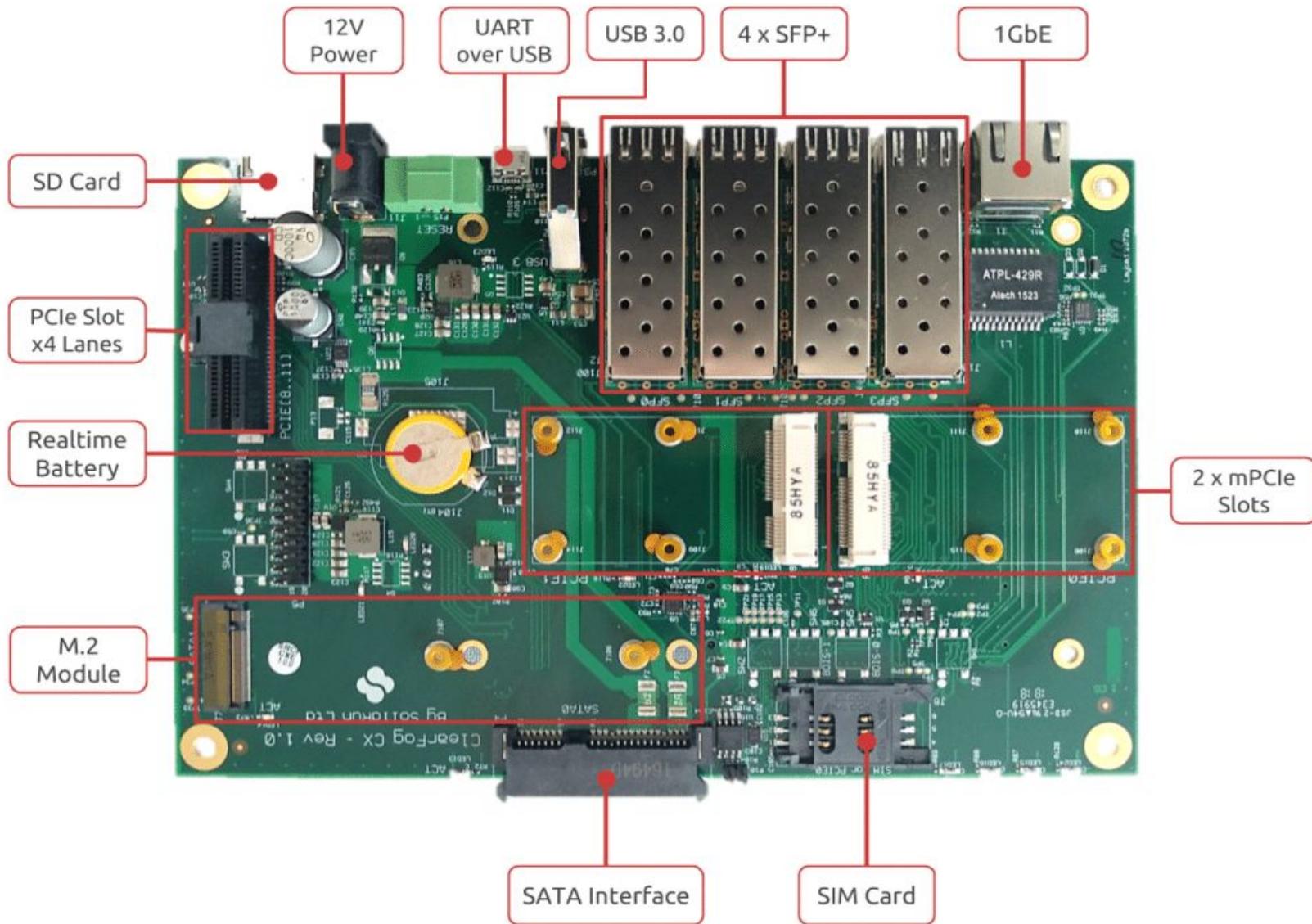


## Modularity & Flexibility

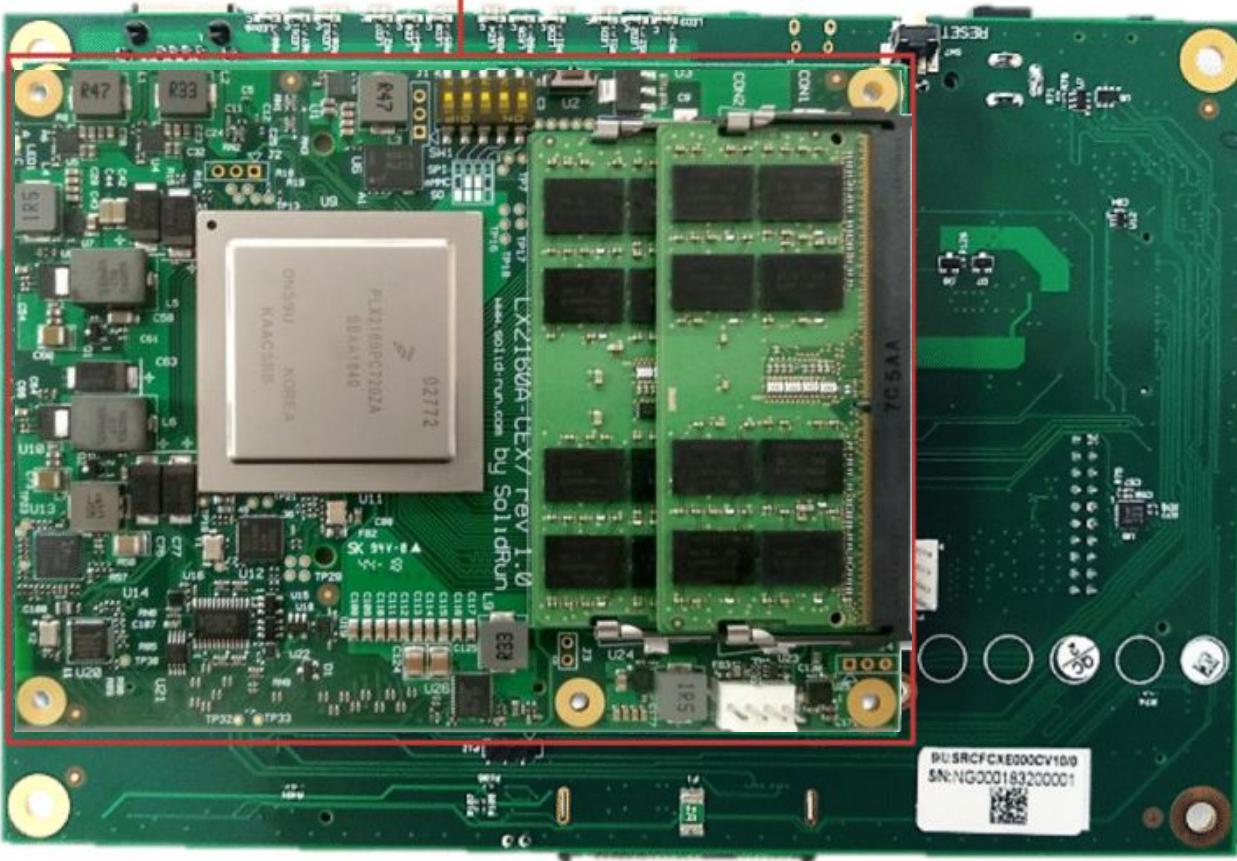
SolidRun's CEx7 LX2K COM is designed base on the popular COM Express Type 7 form factor, allowing simpler development and deployment options, and simple interchangeability with future COM Express 7 based modules..

# CEx7 LX2160Aモジュールの仕様

SoC	NXP LX2160A
プロセッサ	16コアCortex-A72(最大2.2GHz)
アクセラレーション	NXP DPAA2 最大50Gbpsの暗号 最大100Gbpsの圧縮/解凍
その他の機能	IO仮想化 SBSA
メモリ	ECCをサポートするデュアルチャネル64ビットDDR4(最大3200MTps)
ネットワーキング	1GbE 4×10 G / 4×25 G / 1×100 G
フラッシュ	NORフラッシュ搭載(SPI ROM) オンボードNANDフラッシュeMMC
ストレージ	2X SATA 3.0 SDIOのサポート オンボードeMMC(オプション)
拡張ハイスピード	18レーンPCIe gen 4.0 2x USB 3.0
電源	12V単一電源
フォームファクタ	COM Express Type 7ベーシック(125 mm x 95 mm)
ソフトウェア	Linux kernel 4.x Yocto DPDK UEFI KVM/QEMU/Containers NFV Openstack compute node



COM Express  
type 7 Module



# Enclosure



ClearFog ITX Workstation

Ruggedized Enclosure



# ClearFog ITX UseCase

## INTERNET OF THINGS SOLUTIONS



Smart City



Industry 4.0



Home Automation



Automotive Transport



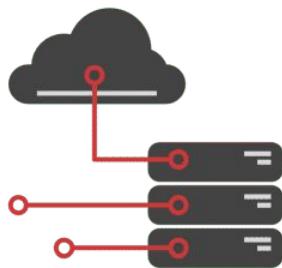
Multimedia



POS & Vending Machines



Aviation Drones



# ClearFog ITX UseCase

## NETWORK SOLUTIONS



**Access Point**



**Network Attached Storage**



**Server Message Block Gateway**

# Distribution of ClearFog ITX (plan)



**Server Base System  
Architecture (SBSA)**