Devices Leftovers

By Roy Schestowitz
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- **ASRock Industrial announces Intel Elkhart Lake mini PCs and motherboards - CNX Software** [2]

  Intel Atom x6000E Series, Celeron, and Pentium Elkhart Lake processors for IoT Edge applications were launched in September 2020, with many companies shortly introducing modules, single board computers, motherboards, and industrial, rugged mini PCs after the official announcement.

  ASRock Industrial took more time to announce their Elkhart Lake offerings, with three families of hardware platforms with NUC 6000 BOX Series and IBOX 6000 Series mini PCs, as well as NUC 6000 Motherboard series.

- **Venice GW7100 compact industrial SBC packs one Gigabit Ethernet port, one mPCIe socket - CNX Software** [3]

  Gateworks introduced the new Venice Industrial IoT SBC Family based on NXP i.MX 8M Mini processor with up to two Ethernet ports and four mPCIe Sockets last September starting with GW7300 board with dual Gigabit Ethernet and three mPCIe sockets.

  But the US company has now announced the availability of the smallest member of the family with Venice GW7100 SBC equipped with just one Gigabit Ethernet port and one mPCIe socket in a compact 100x35mm form factor.

- **Tiny i.MX8M Mini SBC serves up mini-PCIe with PoE-enabled GbE** [4]

  Gateworks? 100 x 35mm ?Venice GW7100? SBC combines a Linux-driven i.MX8M Mini with up to 4GB LPDDR4 and 64GB MMC plus GbE with PoE, USB Type-C, mini-PCIe with
nano-SIM, -40 to 85°C support, and optional GPS.

Gateworks has announced the smallest member of its family of i.MX8M based Venice SBCs, following the 105 x 100mm Venice GW7300 and 100 x 70mm GW7200. Unlike the earlier two models, the 100 x 35mm Venice GW7100 is limited to single GbE and mini-PCIe slots. Standard SKUs include 1GB RAM/8GB eMMC and 4GB/64GB.

- This low-cost device uses tinyML on Arduino to detect respiratory diseases in pigs | Arduino Blog [5]

One major drawback to the largescale farming of animals for meat consumption is the tendency for diseases to spread rapidly and decimate the population. This widespread issue is what drove Clinton Oduor to build a tinyML-powered device that can perform precision livestock farming tasks intelligently. His project works by continuously monitoring the noise coming from pigs and makes a determination about what they mean, such as if a cough is indicative of a respiratory illness or a squeal denoting stress.

Hardware

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