

Ämne: [Press Release] ASRock Industrial Launches the iEP-7020E Series Industrial IoT Controller for Intelligent Control at the Edge

Datum: tisdag 28 mars 2023 kl. 04:16:30 centraleuropeisk sommartid

Från: ASRI_Marketing

Bifogade filer: ASRock Industrial iEP-7020E Series Industrial IoT Controller.jpg, [Press Release] ASRock Industrial Launches the iEP-7020E Series Industrial IoT Controller for Intelligent Control at the Edge.docx, image002.jpg, image009.jpg, image003.jpg

Dear All,

Taipei, Taiwan (Mar. 28, 2023) ASRock Industrial is excited to release the iEP-7020E Series Industrial IoT Controller enabled by 13th Gen Intel® Core™ Embedded and Industrial Processors (Raptor Lake-P) for optimized performance and scalability. With Intel® Iris Xe graphics for fast AI and Intel® In-Band ECC support, delivering intelligent and reliable control over vital processes at the edge. The iEP-7020E Series feature optimal flexibility in I/O and expansion design with Intel® TCC and TSN support for real-time computing to flawlessly connect edge devices in one compact form factor. The system's fan-less and rugged design guarantees functionality in harsh environments with -40~70°C wide operating temperature and 9-36VDC wide range DC-IN power inputs. It is the ideal Edge Controller and IoT Gateway in smart manufacturing, factory automation, robotics, process automation, smart city, smart retail, AI surveillance and more.

**Sincerely,
ASRock Industrial Marketing**



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Powerful and Intelligent Control with 13th Gen Intel® Core™ Processors

With CPU and GPU enhancement, the iEP-7020E Series enable streamlined solutions through h control capabilities in edge computing, delivering real-time visual insights with intelligence. The iEP include powerful and versatile models- iEP-7020E-000 (Basic SKU), iEP-7020E-001 (PoE SKU), and 13th Gen Intel® Core™ i7/i5 Embedded and Industrial Processors (Raptor Lake-P). The performance cores and 20 threads for computing-intensive process control, securing optimized performance and to 1.08x faster single-thread performance and up to 1.05x faster multi-thread performance. The Ir execution units (EUs) for graphics boosts, along with dual channel DDR4 3200MHz SO-DIMM DRAM ECC for fast AI inference use cases while ensuring reliable data integrity.

Rich IO Connections and Flexible Configurations

The iEP-7020E Series come in fan-less and compact sizes of 55 x 170 x 134 mm (W x H x D) for iEP- and 68 x 170 x 134 mm (W x H x D) for iEP-7020E-001(PoE SKU). They are equipped with rich IO ext serial ports, one 4DIs/4DOs with power-on/reset, three USB 3.2 Gen 2x1, one USB 2.0, and one line factory equipment. In addition, there are three 2.5GbE Intel® i226-IT LAN with vPro support, two 10 (SKU) plus optional two Intel® i210AT supporting IEEE 802.3AF PoE (PoE SKU) with Intel® TCC and TS They also support two DP++ 1.4a for close-to-perfect computer vision processing. The Series imp diverse and simultaneous IIoT application requirements.

RF Capabilities and Expandability for Flawless IT/OT Connection

The iEP-7020E Series support 4G LTE, 5G, Wi-Fi 6E, and BT 5.2 RF capabilities with optional thr 5G/two Wi-Fi antenna to offer high-speed data collection and transmission in IIoT communication. including one M.2 Key B socket (3042/3052/2280) for 4G LTE/5G module/SATA3 SSD storage (iEP- Wi-Fi/BT module, with the addition of one Nano SIM card slot for 4G/5G. For storage support, feat SSD (iEP-7020E-000) and one M.2 Key M 2280 for NVMe SSD. The RF connections with Intel® I remote management, firmware/software/application of over-the-air (OTA) updates plus M2M prot and OT.

Rugged Design and Robust Power for Demanding Environments

For long-term reliability and durability, deployment in a harsh environment is the iEP-7020E Series' rugged design and expansive range operating temperature from -40°C to 70°C (iEP-7020E-000) shock/vibration resistance for dependable functionality in harsh environments. Featuring complete surge protection plus 80V Surge Protection, the iEP-7020E-000/002 bring robust power of 9-36VDC and the iEP-7020E-001 DC input supporting phoenix type connector for industrial applications. For industrial security, T-secure computing platform. Moreover, the unique addition of one storage/one user-define/two debug LED function to reduce machine downtime. Lastly, the Series are equipped with various mounting options and DIN rail, to offer flexibility for diverse application needs.

System	iEP-7020E-000 Series	iEP-7020E-001 Series	iEP-7020E-002 Series
	Basic SKU	PoE SKU	5LAN
CPU	13th Gen Intel® Core™ i7/i5 Embedded and Industrial Processors		
Memory	DDR4 3200 Dual SO-DIMM, up to 64G (Support In-Band)		
Storage	<ul style="list-style-type: none"> • 1 x M.2 2280 Key M • 1 x 2.5" 9.5mm SSD 	<ul style="list-style-type: none"> • 1 x M.2 2280 Key M 	<ul style="list-style-type: none"> • 1 x M.2 2280 Key M
Wi-Fi/BT	Support*	Support*	Support*
4G/5G	Support**	N/A	N/A
Ethernet	<ul style="list-style-type: none"> • 3 x Intel I226-IT 	<ul style="list-style-type: none"> • 3 x Intel I226-IT • 2 x Intel I210-AT 	<ul style="list-style-type: none"> • 3 x Intel I226-IT • 2 x Intel I210-AT
PoE	N/A	Support IEEE 802.3AF PoE (I210-AT)	N/A
Mount (Option)	<ul style="list-style-type: none"> • Wall Mount • VESA Mount • DIN-Rail 	<ul style="list-style-type: none"> • Wall Mount • DIN-Rail 	<ul style="list-style-type: none"> • Wall Mount • VESA Mount • DIN-Rail

*Support by additional Wifi/BT kit

**Support by additional 4G LTE/5G kit

For more product information about ASRock Industrial's new iEP-7020E Series Industrial IoT Controller, visit our [Product Page](#) or contact us at [Product Inquiry](#).

ABOUT ASROCK INDUSTRIAL

ASRock Industrial Computer Corporation was established as an independent company in January 2011, focusing on motherboards, edge computers, and other products for manufacturing, business, and retail industries. Previously, it had been a business unit of ASRock Computer Corporation, which was set up in 2011.

By becoming an independent company, ASRock Industrial can devote all its resources to B2B a intelligent world, with a core focus on CARES (Commerce/Automation/Robot/Entertainment/Sec design team of almost 53% of the staff, ASRock Industrial has the resources to develop reliable, le: needs. All products can be bought off-the-shelf or customized to the demands of OEMs/ODMs.

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