



EmCORE-iX700 – 3.5" Compact Board with Intel® Amston Lake and Alder Lake N Series Processors

The EmCORE-iX700 is a 3.5" compact board equipped with Intel® Atom™ Processor x7000 family for extended temperature or Intel® Processor N Series for commercial temperature computing. The small form factor of this board, paired with extensive I/O and multiple video outputs for up to triple independent display, allow for installation and use in demanding environments while maintaining functionality.

SPECIFICATIONS

CPU	Soldered onboard Intel® Atom™ Processor x7000 for extended temperature or Intel® processor N Series for commercial temperature
Memory Type	262-pin DDR5 4800MHz SO-DIMM
Memory Slots	1
Maximum Memory Supported	16GB
Watchdog Timer	1 ~ 255 levels reset
Digital I/O	8-bit Programmable
Integrated Graphics	Intel® 12th Gen UHD Graphics
LAN Ports	2 x Intel® I226 2.5 GbE
Serial ATA (SATA)	1 x SATA III
Extended Interface	1 x M.2 M-key 2280 (PCIe x1 / SATA 3.0), 1 x M.2 E-key 2030 (PCIe x1 / USB 2.0), 1 x M.2 B-key 3042/3052 (PCIe x1 / USB 3.2)
Internal I/O	2 x RS-232/422/485, 4 x USB 2.0, 1 x DIO, 1 x LVDS
Rear I/O	2 x LAN, 1 x HDMI, 1 x DP, 1 x VGA, 2 x USB 3.2 Gen2

Audio	Realtek HD Audio
Power Requirement	DC input 12V
Dimensions	5.7" x 4.0" (146mm x 102mm)
Operating Temperature	-40 ~ 85°C (-40 ~ 185°F, WT-series), -20 ~ 50°C (-4 ~ 122°F)
Relative Humidity	10 ~ 95% @ 85°C (non-condensing, WT-series), 10 ~ 95% @ 50°C (non-condensing)
OS Software Supported	Windows 10 IoT, Windows 11 IoT, Linux Ubuntu
Global P/N / SKU	3308953

Ordering Options

EmCORE-iX700-WT-x7433RE (SKU# 3308953A): 3.5" compact board with Intel® Atom™ Processor x7433RE and extended operating temperature EmCORE-iX700-WT-x7211RE (SKU# 3308953B): 3.5" compact board with Intel® Atom™ Processor x7211RE and extended operating temperature EmCORE-iX700-N200 (SKU# 3308953C): 3.5" compact board with Intel® Processor N200 EmCORE-iX700-N305 (SKU# 3308953D): 3.5" compact board with Intel® Processor i3-N305

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