

## Intel Atom x6425RE processor 1.9 GHz 1.5 MB L2

Brand : Intel

Product family: Atom

Product code:  
FH8070304289558

Product name : Intel Atom®  
x6425RE Processor (1.5M Cache,  
1.90 GHz)



Intel Atom x6425RE Processor 1.5M Cache 1.90 GHz

Intel Atom x6425RE. Processor family: Intel Atom®, Processor socket: BGA 1493, Processor lithography: 10 nm. Memory channels: Quad-channel, Memory bandwidth (max): 68.2 GB/s. On-board graphics card model: Intel® UHD Graphics, On-board graphics card outputs supported: Embedded DisplayPort (eDP), DisplayPort, HDMI, MIPI-DSI, On-board graphics card base frequency: 400 MHz. Market segment: Embedded, Use conditions: Industrial Extended Temp, Export Control Classification Number (ECCN): 5A992CN3. Processor package size: 35 x 24 mm

Processor		Features	
Processor manufacturer *	Intel	Commodity Classification	
Processor model *	x6425RE	Automated Tracking System (CCATS)	G179048
Processor base frequency *	1.9 GHz	<b>I/O configuration</b>	
Processor family *	Intel Atom®	USB ports quantity	4
Processor cores *	4	Total number of SATA connectors	2
Processor socket *	BGA 1493	General Purpose IO	Yes
Processor lithography *	10 nm	<b>Processor special features</b>	
Processor threads	4	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor operating modes *	64-bit	Intel® Quick Sync Video Technology	✓
Processor cache	1.5 MB	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor cache type	L2	Intel Trusted Execution Technology	✗
Thermal Design Power (TDP)	12 W	Intel® Speed Shift Technology	✗
Box *	✗	Intel® Time Coordinated Computing (Intel® TCC)	✓
Cooler included *	✗	Intel® Secure Key	✓
Memory bandwidth supported by processor (max)	68.2 GB/s	Intel® High Definition Audio (Intel® HD Audio)	✓
Processor ARK ID	207899	Intel® OS Guard	✓
<b>Memory</b>		Intel Secure Boot	✓
Memory channels *	Quad-channel	Intel 64	✓
ECC	✗	Intel Virtualization Technology (VT-x)	✓
Memory bandwidth (max)	68.2 GB/s	Intel Virtualization Technology for Directed I/O (VT-d)	✓
<b>Graphics</b>		Intel® Boot Guard	✓
On-board graphics card *	✓	Intel® vPro™ Platform Eligibility	✗
Discrete graphics card *	✗	<b>Operational conditions</b>	
On-board graphics card model *	Intel® UHD Graphics	Minimum operating temperature	-40 °C
On-board graphics card outputs supported	Embedded DisplayPort (eDP), DisplayPort, HDMI, MIPI-DSI	Operating temperature (T-T)	-40 - 85 °C
On-board graphics card base frequency	400 MHz	Maximum operating temperature	85 °C
On-board graphics card 4K support	✓	Tjunction	110 °C
On-board graphics card refresh rate at maximum resolution (DisplayPort)	60 Hz	<b>Logistics data</b>	
On-board graphics card refresh rate at maximum resolution (eDP - Integrated Flat Panel)	60 Hz	Harmonized System (HS) code	8542310001
Discrete graphics card model *	Not available	<b>Technical details</b>	
Number of execution units	32	Launch date	Q1'21
<b>Features</b>		Status	Launched
Execute Disable Bit	✓	<b>Weight &amp; dimensions</b>	
Idle States	✓	Processor package size	35 x 24 mm
Market segment	Embedded		

Features		Other features	
Use conditions	Industrial Extended Temp	Maximum internal memory	32 GB
Maximum number of PCI Express lanes	8		
PCI Express slots version	3.0		
CPU configuration (max)	1		
Export Control Classification Number (ECCN)	5A992CN3		



8592978476328

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.

Publication date: 15-MAR-2024. Prints or copies of Information are only valid on the printed Publication date