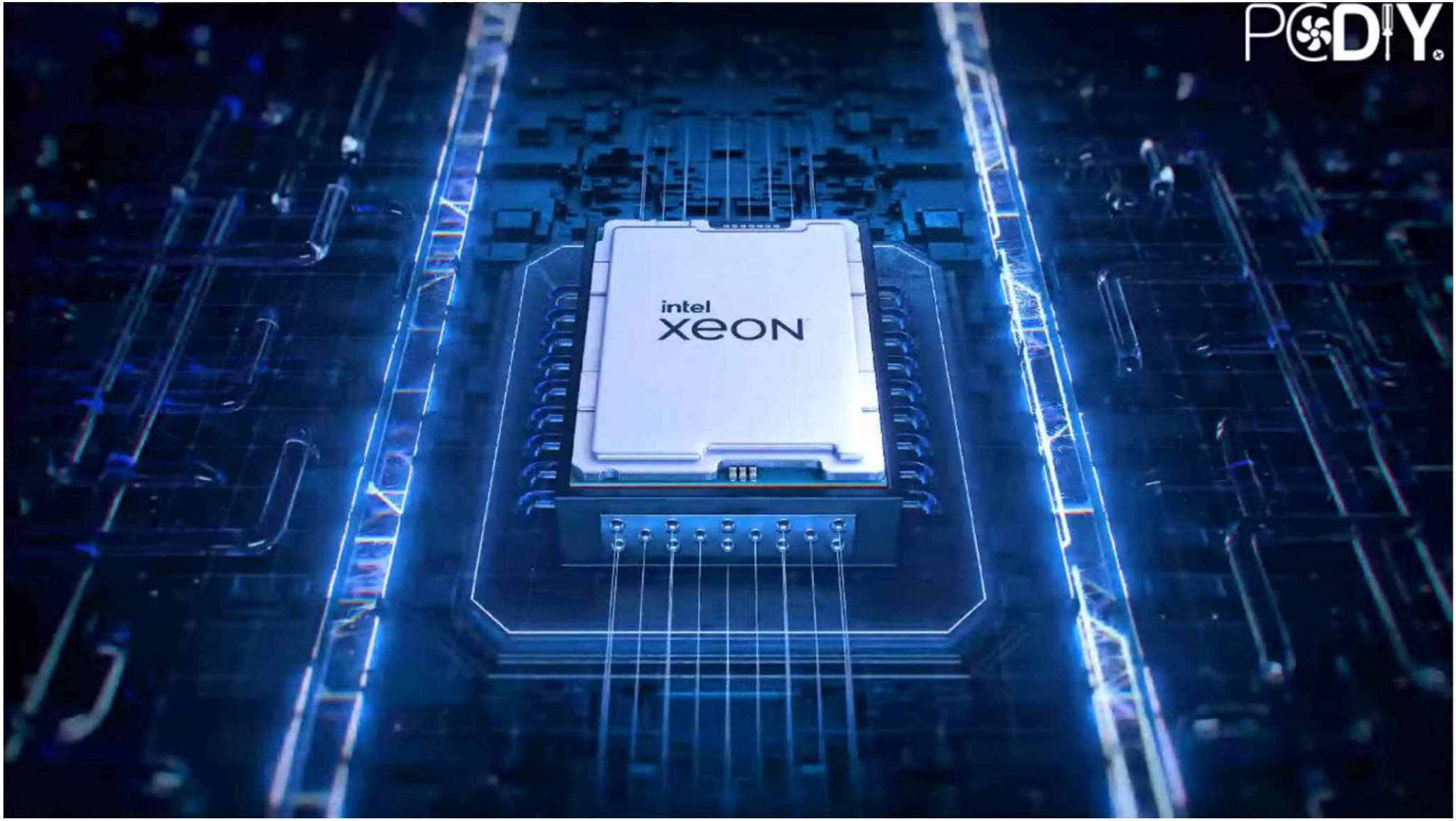

intel
XEON

Introducing Intel® Xeon® W Processors

Expert Workstation

350W

Intel® Xeon® W-3400 Processors

Mainstream Workstation

225W

Intel® Xeon® W-2400 Processors

PCDIY

Processor Cores

Up to 56 Cores
Intel® Xeon® W-3400 Processors

Up to 24 cores
Intel® Xeon® W-2400 Processors

Processor

Intel® Turbo Boost Max Technology 3.0
up to 4.8Ghz of CPU frequency

Intel® Smart Cache
up to 105MB

3rd Gen Intel® Deep Learning Boost
AVX-512 support

Advanced Matrix Extensions (AMX)
INT8 and BFloat 16 datatypes

Memory

Memory Support
DDR5 ECC RDIMM
up to 4800Mt/s

Memory Capacity
up to 4TB

Memory Channels
up to 8 channels

Platform

Intel® W790 Chipset

System Expansion
up to 112 CPU PCIe 5.0 lanes

Network Connectivity
integrated Intel® Wi-Fi 6E (Gig+)

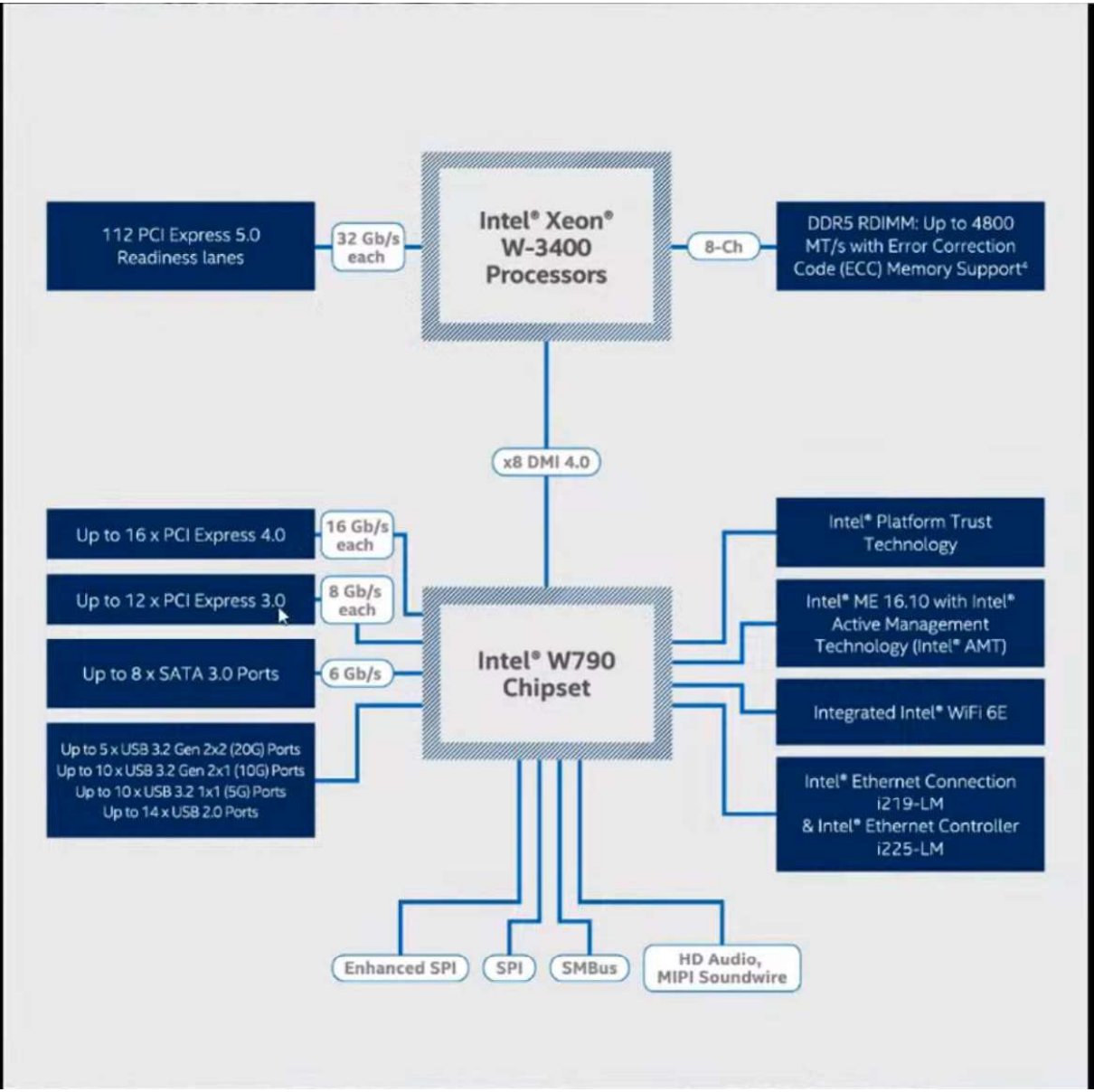
Intel vPro® Enterprise Technologies
for Hardware-based Security and System Manageability

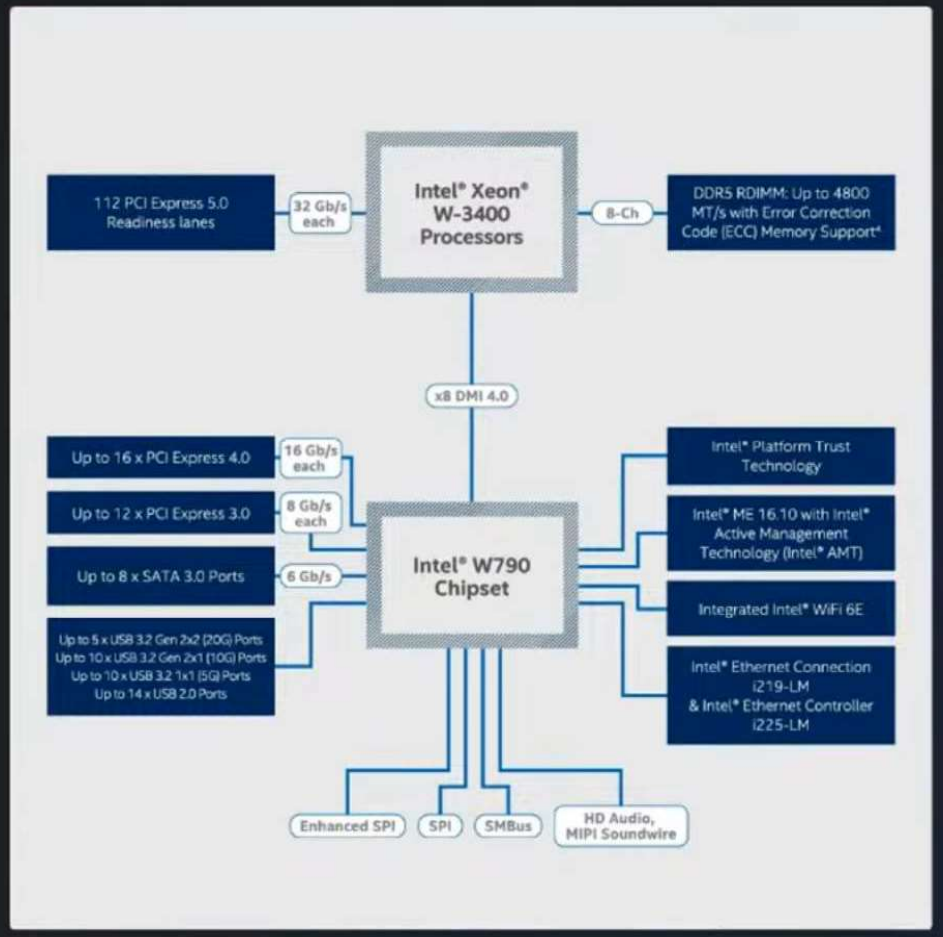
Expansion Connectivity
increased bandwidth to chipset
x8 DMI 4.0

Flexible Pixel Powerhouse

intel XEON

How is EMIB Constructed?


112 PCI Express 5.0 Readiness lanes
32 Gb/s each
Intel® Xeon® W-3400 Processors
8-Ch
DDR5 RDIMM: Up to 4800 MT/s with Error Correction Code (ECC) Memory Support⁴
x8 DMI 4.0
Up to 16 x PCI Express 4.0
16 Gb/s each
Up to 12 x PCI Express 3.0
8 Gb/s each
Up to 8 x SATA 3.0 Ports
6 Gb/s
Up to 5 x USB 3.2 Gen 2x2 (20G) Ports
Up to 10 x USB 3.2 Gen 2x1 (10G) Ports
Up to 10 x USB 3.2 1x1 (5G) Ports
Up to 14 x USB 2.0 Ports
Intel® W790 Chipset
Intel® Platform Trust Technology
Intel® ME 16.10 with Intel® Active Management Technology (Intel® AMT)
Integrated Intel® WiFi 6E
Intel® Ethernet Connection i219-LM & Intel® Ethernet Controller i225-LM
Enhanced SPI
SPI
SMBus
HD Audio, MIPI Soundwire


112 PCI Express 5.0 Readiness lanes
32 Gb/s each
Intel® Xeon® W-3400 Processors
8-Ch
DDR5 RDIMM: Up to 4800 MT/s with Error Correction Code (ECC) Memory Support4
x8 DMI 4.0
Up to 16 x PCI Express 4.0
16 Gb/s each
Up to 12 x PCI Express 3.0
8 Gb/s each
Up to 8 x SATA 3.0 Ports
6 Gb/s
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Intel® W790 Chipset
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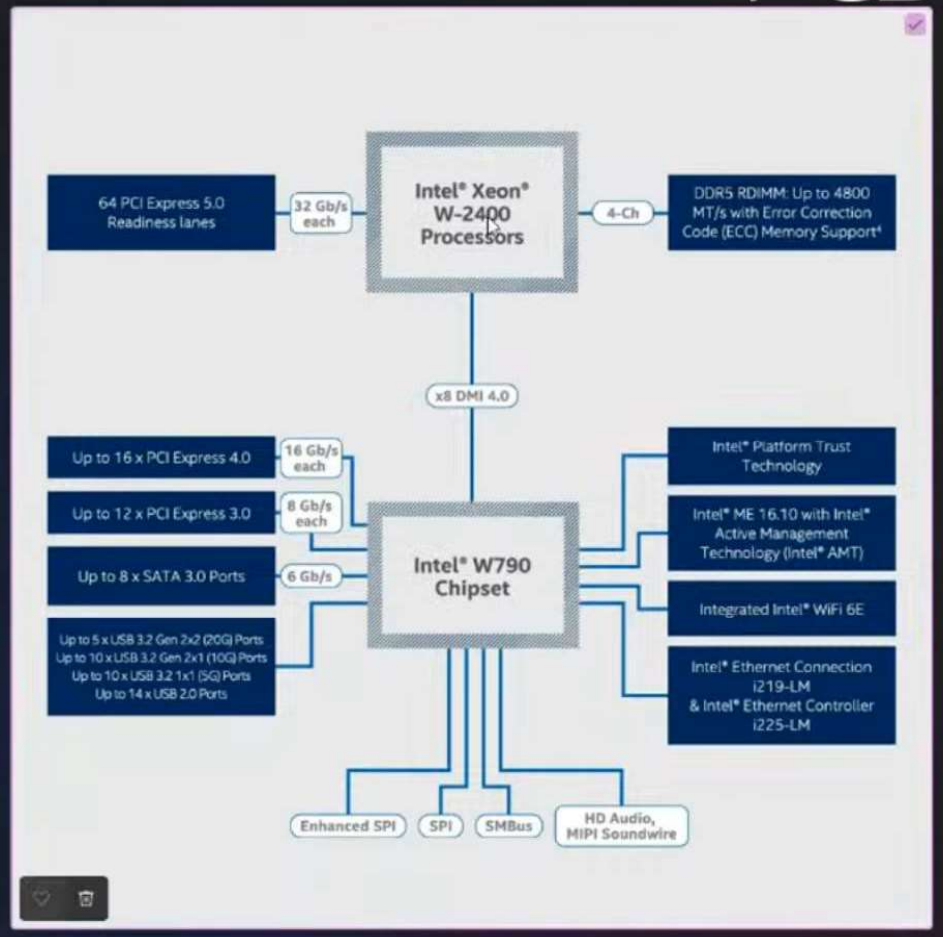
Enhanced SPI
SPI
SMBus
HD Audio, MIPI Soundwire


64 PCI Express 5.0 Readiness lanes
32 Gb/s each
Intel® Xeon® W-2400 Processors
4-Ch
DDR5 RDIMM: Up to 4800 MT/s with Error Correction Code (ECC) Memory Support4
x8 DMI 4.0
Up to 16 x PCI Express 4.0
16 Gb/s each
Up to 12 x PCI Express 3.0
8 Gb/s each
Up to 8 x SATA 3.0 Ports
6 Gb/s
Up to 5 x USB 3.2 Gen 2x2 (20G) Ports
Up to 10 x USB 3.2 Gen 2x1 (10G) Ports
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Intel® W790 Chipset
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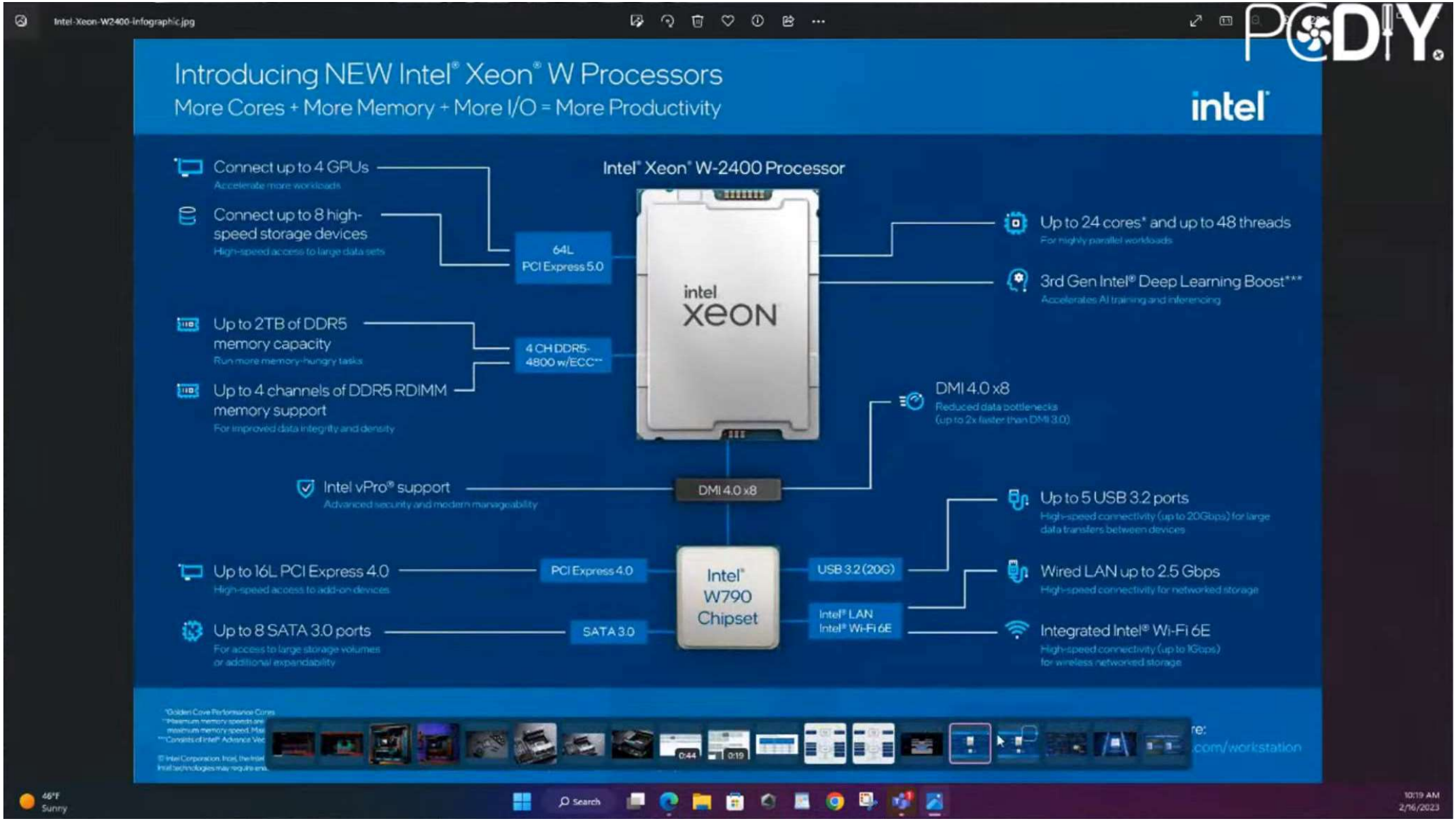
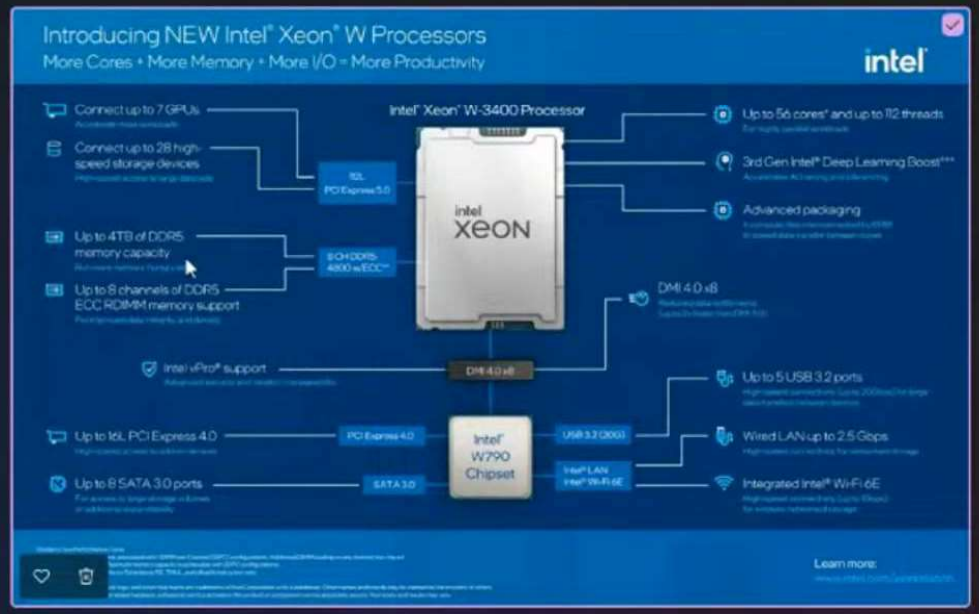
Enhanced SPI
SPI
SMBus
HD Audio, MIPI Soundwire


Intel-Xeon-W2400-Infographic.jpg
Introducing NEW Intel® Xeon® W Processors
More Cores + More Memory + More I/O = More Productivity
intel
Intel® Xeon® W-2400 Processor
Connect up to 4 GPUs
Accelerate more workloads
Connect up to 8 high-speed storage devices
High-speed access to large data sets
64L PCI Express 5.0
Up to 24 cores* and up to 48 threads
For highly parallel workloads
3rd Gen Intel® Deep Learning Boost***
Accelerates AI training and inferencing
Up to 2TB of DDR5 memory capacity
Run more memory-hungry tasks
Up to 4 channels of DDR5 RDIMM memory support
For improved data integrity and density
4 CH DDR5-4800 w/ECC**
DMI 4.0 x8
Reduced data bottlenecks
(up to 2x faster than DMI 3.0)
Intel vPro® support
Advanced security and modern manageability
DMI 4.0 x8
Up to 5 USB 3.2 ports
High-speed connectivity (up to 20Gbps) for large data transfers between devices
Up to 16L PCI Express 4.0
High-speed access to add-on devices
PCI Express 4.0
Intel® W790 Chipset
USB 3.2 (20G)
Wired LAN up to 2.5 Gbps
High-speed connectivity for networked storage
Up to 8 SATA 3.0 ports
For access to large storage volumes or additional expandability
SATA 3.0
Intel® LAN
Intel® Wi-Fi 6E
Integrated Intel® Wi-Fi 6E
High-speed connectivity (up to 1Gbps) for wireless networked storage
.com/workstation
46°F
Sunny
Search
10:19 AM
2/16/2023

2 items selected



46°F
Sunny

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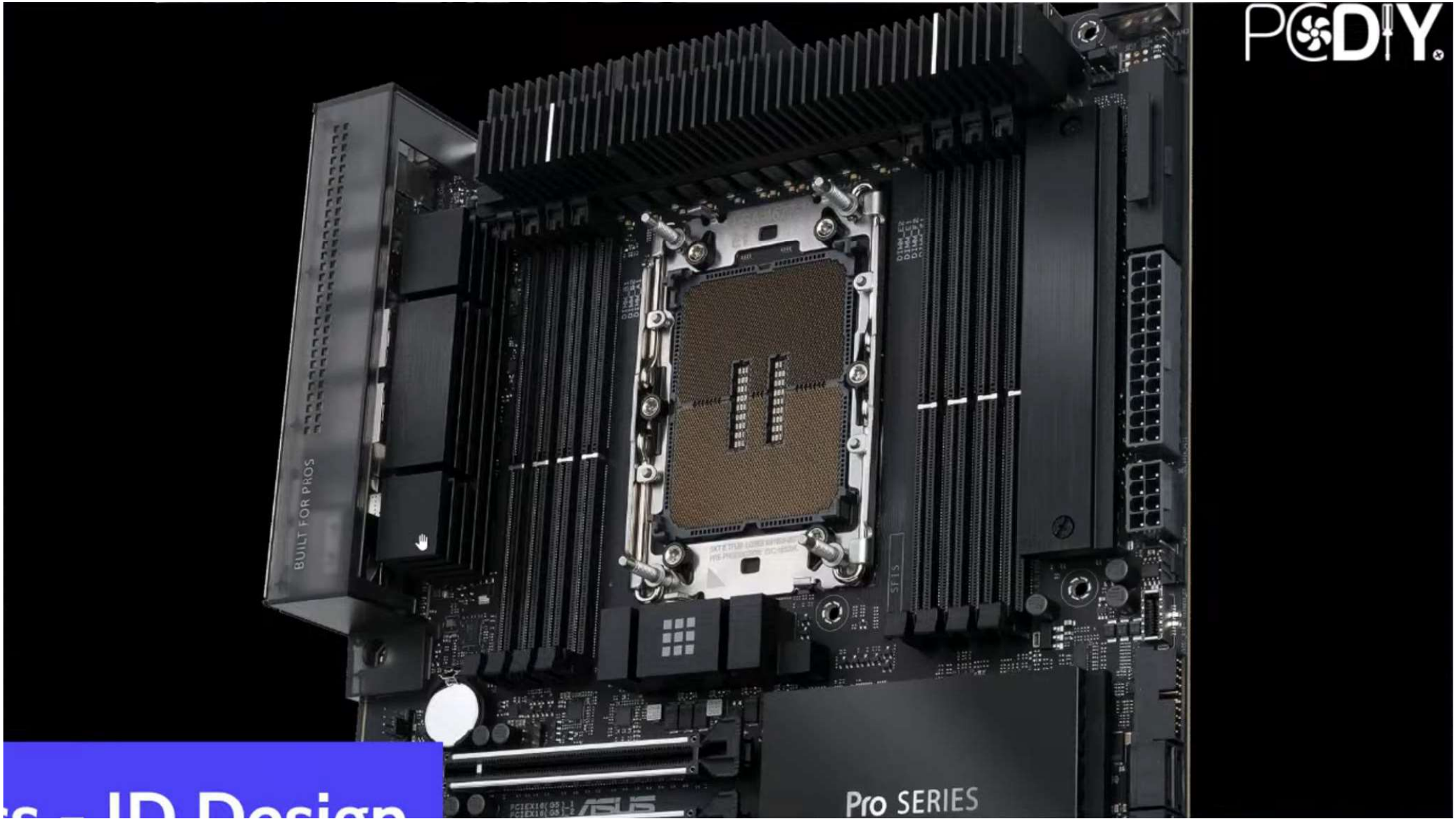
How Pro Workstation MB positions itself

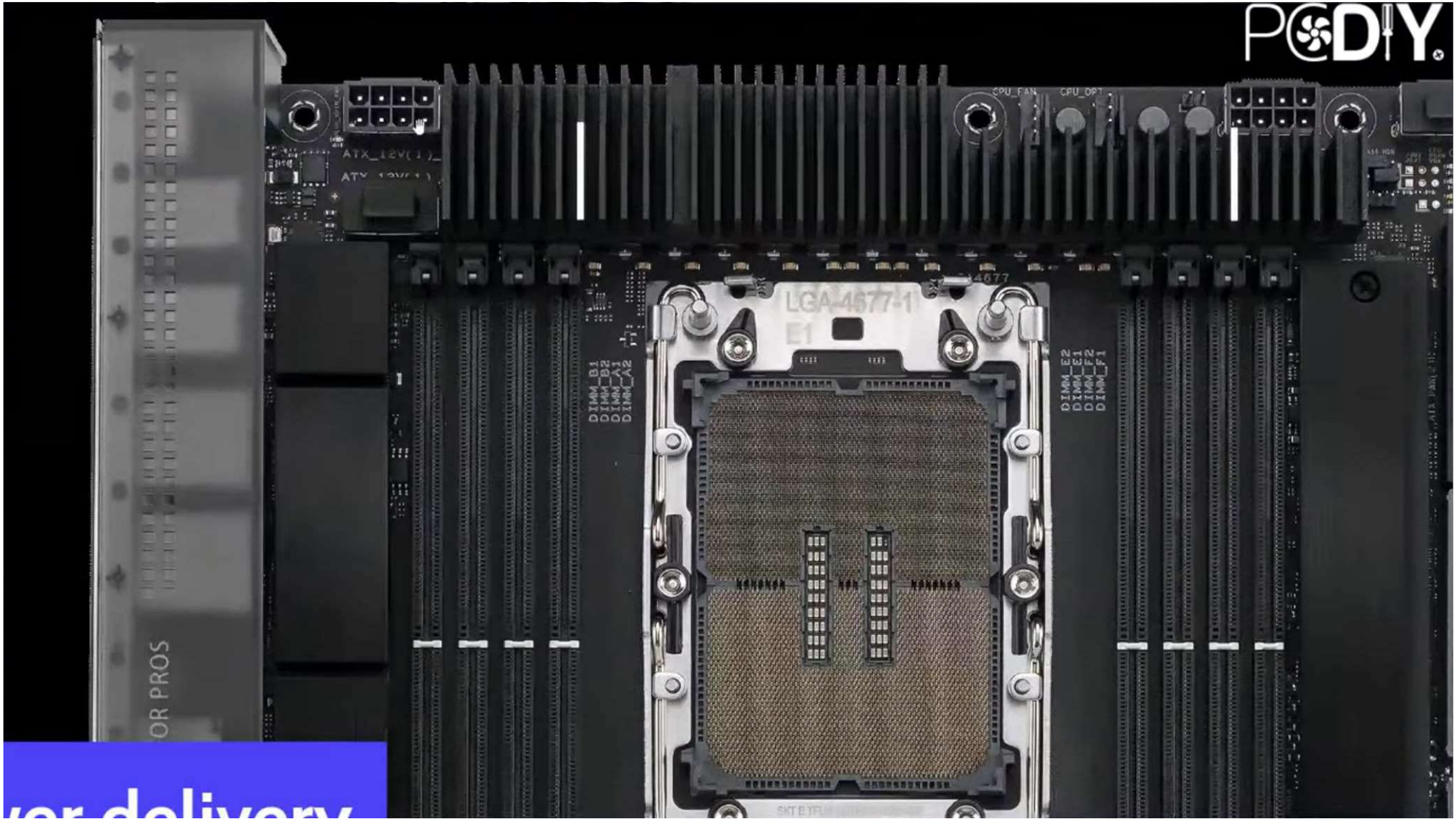
CONFIDENTIAL AND PROPRIETARY INFORMATION

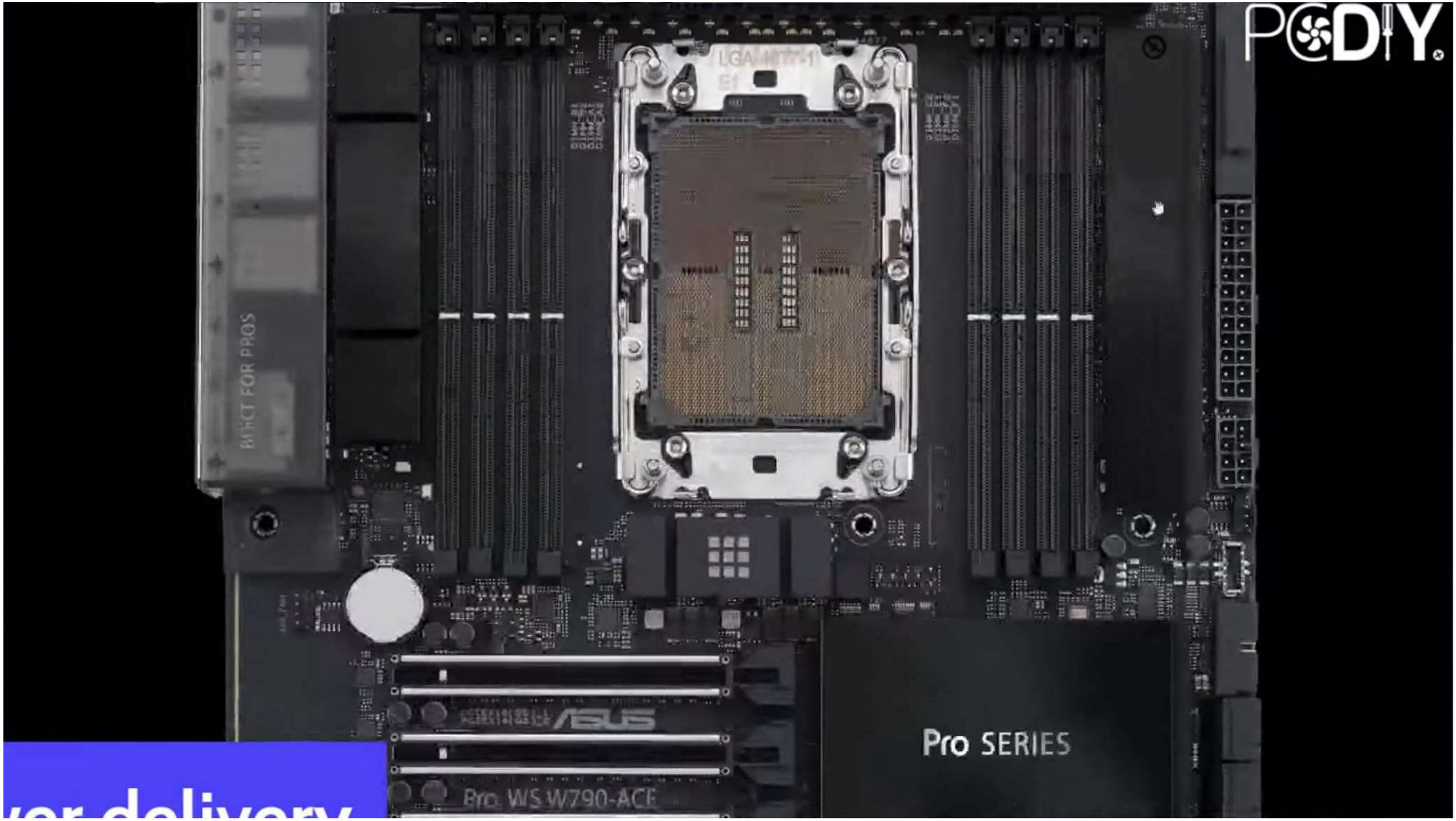
PCDIY.
Pro SERIES
Pro WS W790-ACE


PCDIY.
BUILT FOR PROS
Pro SERIES

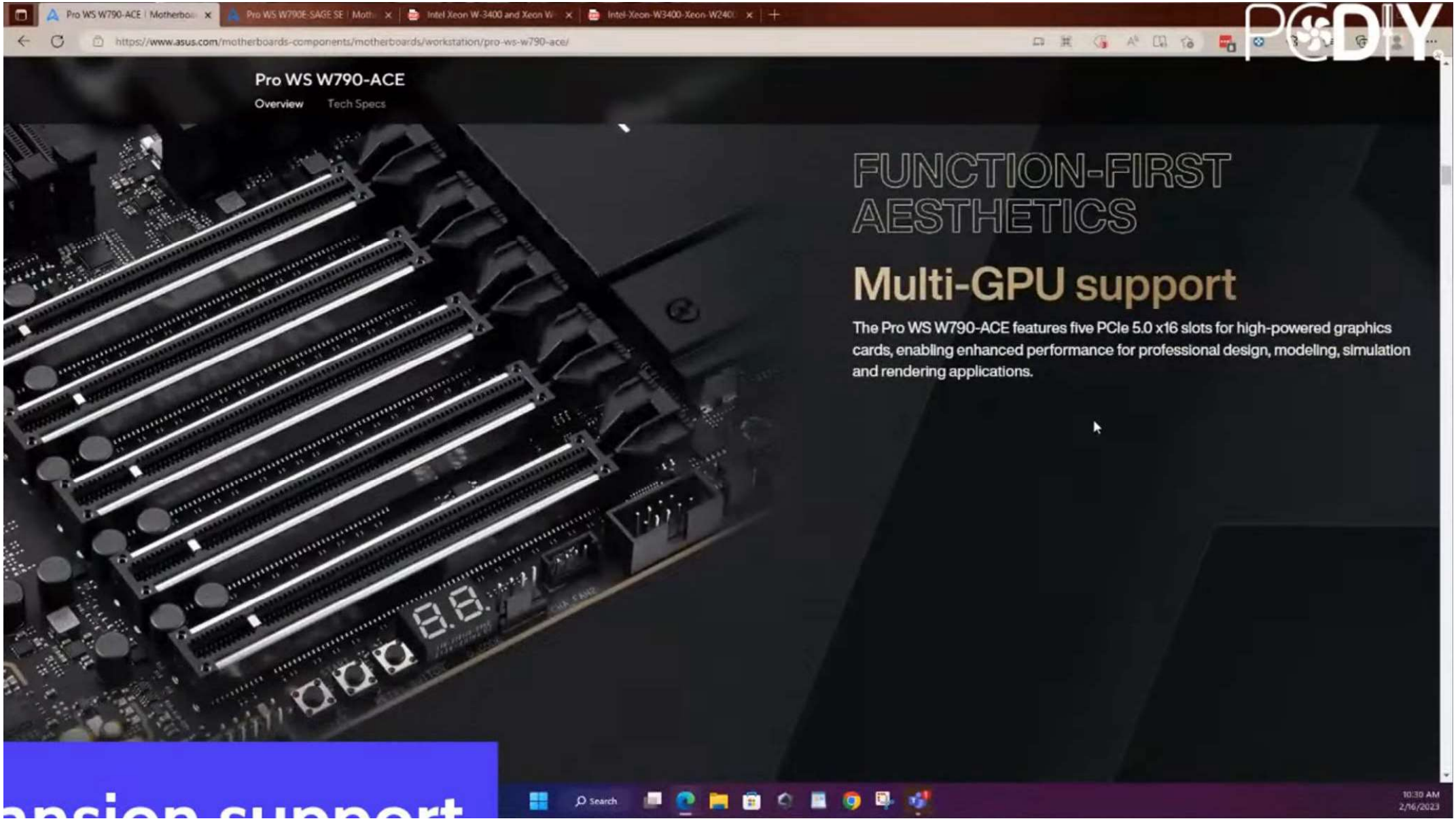
PCDIY.
Pro SERIES
Pro WS W790-ACE

PCDIY
BUILT FOR PROS
LGA-4677-1
E1
Pro SERIES
ASUS
Pro WS W790-ACE


PCDIY.
CPU_FAN
CPU_OPT
LGA-4677-1
DIMM_B1
DIMM_B2
DIMM_A1
DIMM_A2
DIMM_E2
DIMM_E1
DIMM_F2
DIMM_F1
OR PROS
ver delivery


PCDIY.
Pro SERIES
Pro WS W790-ACE

ansion support


Pro WS W790-ACE | Motherboa
Pro WS W790E-SAGE SE | Moth
Intel Xeon W-3400 and Xeon W
Intel-Xeon-W3400-Xeon-W240
https://www.asus.com/motherboards-components/motherboards/workstation/pro-ws-w790-ace/
Pro WS W790-ACE
Overview
Tech Specs
FUNCTION-FIRST AESTHETICS
Multi-GPU support
The Pro WS W790-ACE features five PCIe 5.0 x16 slots for high-powered graphics cards, enabling enhanced performance for professional design, modeling, simulation and rendering applications.
Search
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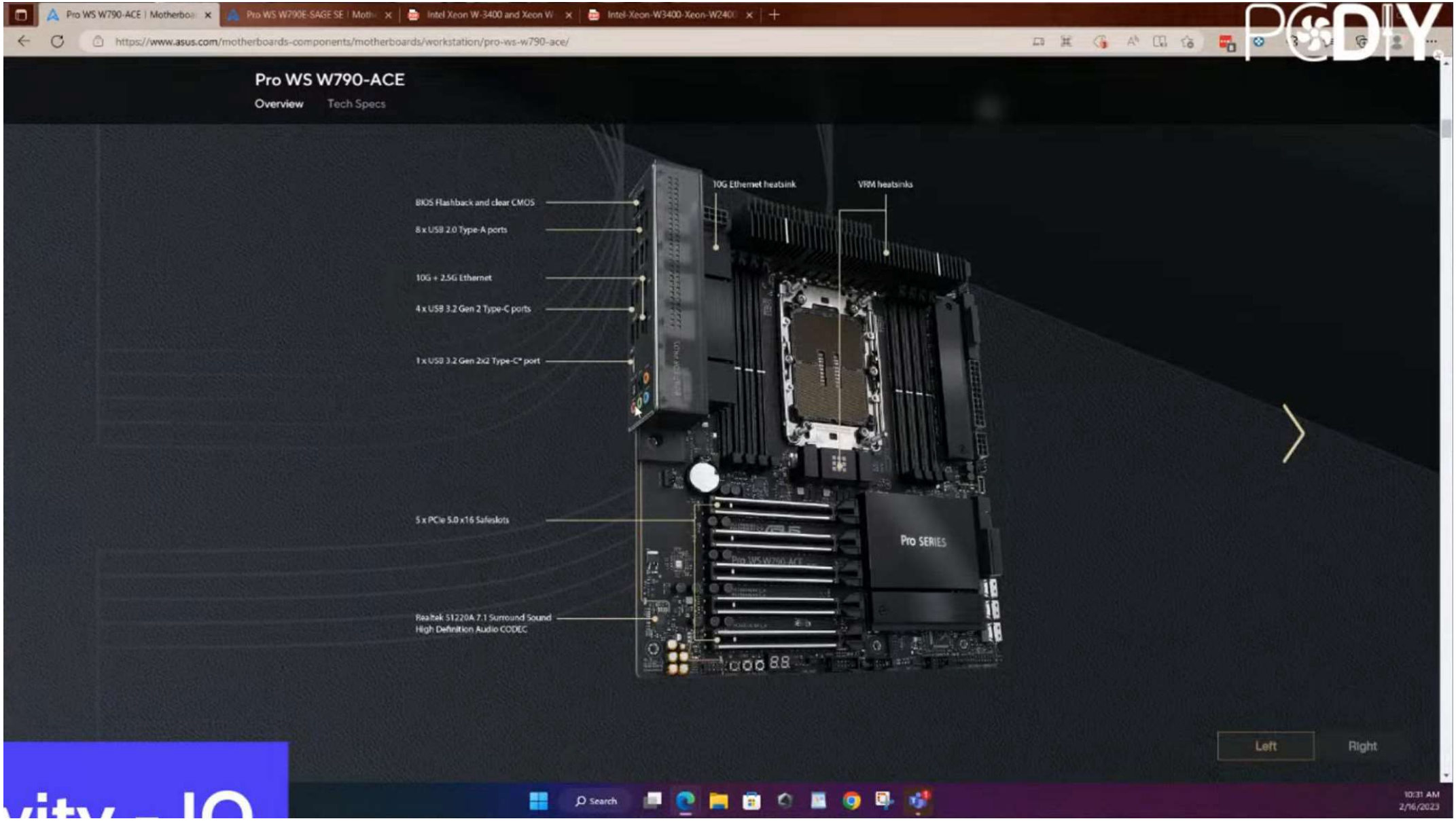
2/16/2023


Pro WS W790-ACE | Motherboa
Pro WS W790E-SAGE SE | Moth
Intel Xeon W-3400 and Xeon W
Intel-Xeon-W3400-Xeon-W2400
https://www.asus.com/motherboards-components/motherboards/workstation/pro-ws-w790-ace/
Pro WS W790-ACE
Overview
Tech Specs
BIOS Flashback and clear CMOS
8 x USB 2.0 Type-A ports
10G + 2.5G Ethernet
4 x USB 3.2 Gen 2 Type-C ports
1 x USB 3.2 Gen 2x2 Type-C® port
5 x PCIe 5.0 x16 SafeSlots
Realtek S1220A 7.1 Surround Sound
High Definition Audio CODEC
10G Ethernet heatsink
VRM heatsinks
Pro SERIES
Left
Right
Search
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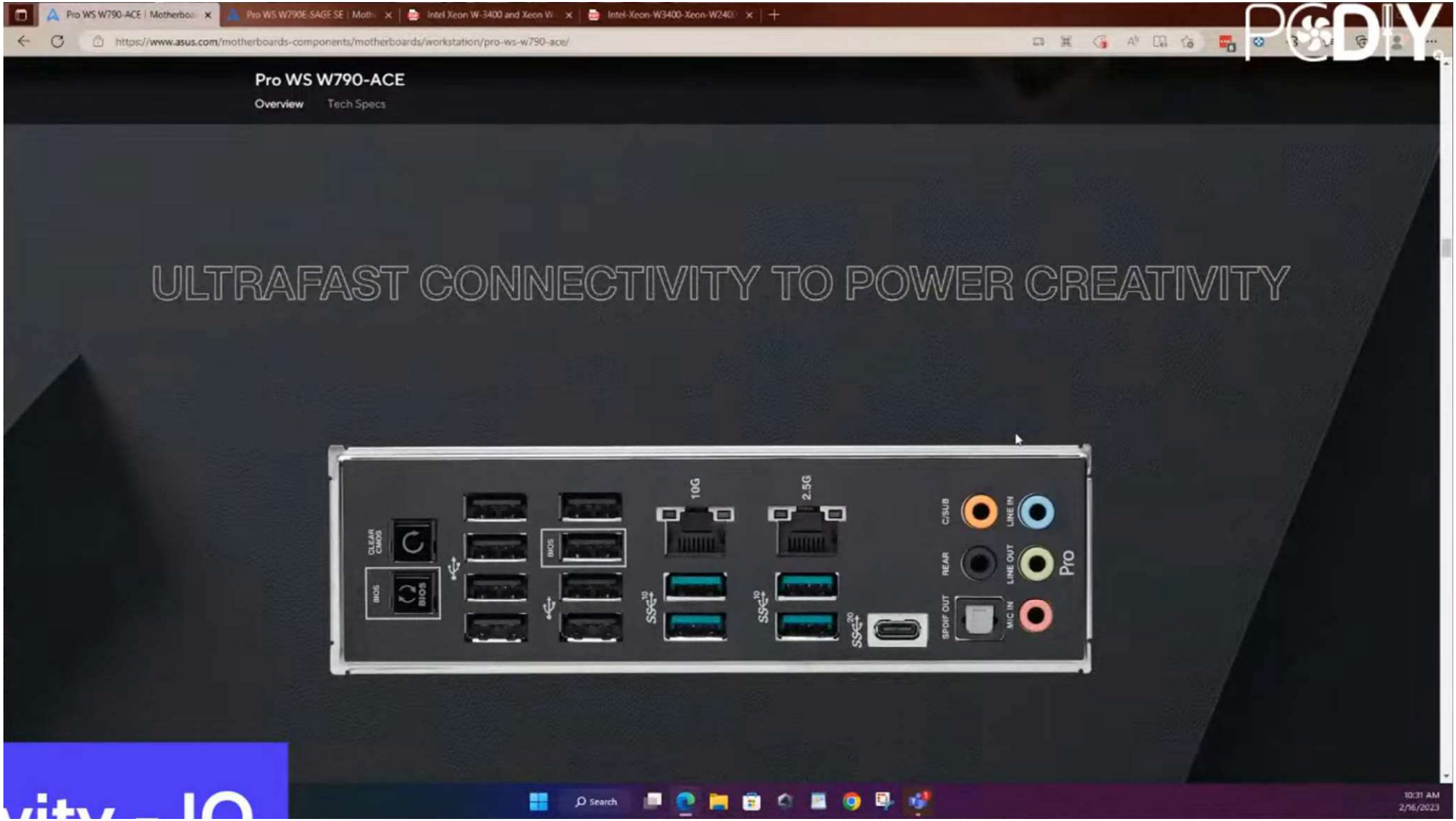
2/16/2023


Pro WS W790-ACE | Motherboa
Pro WS W790E-SAGE SE | Moth
Intel Xeon W-3400 and Xeon W
Intel-Xeon-W3400-Xeon-W240
https://www.asus.com/motherboards-components/motherboards/workstation/pro-ws-w790-ace/
Pro WS W790-ACE
Overview
Tech Specs
ULTRAFAST CONNECTIVITY TO POWER CREATIVITY
CLEAR CMOS
BIOS
BIOS
10G
2.5G
C/SUB
LINE IN
REAR
LINE OUT
SPDIF OUT
MIC IN
Pro
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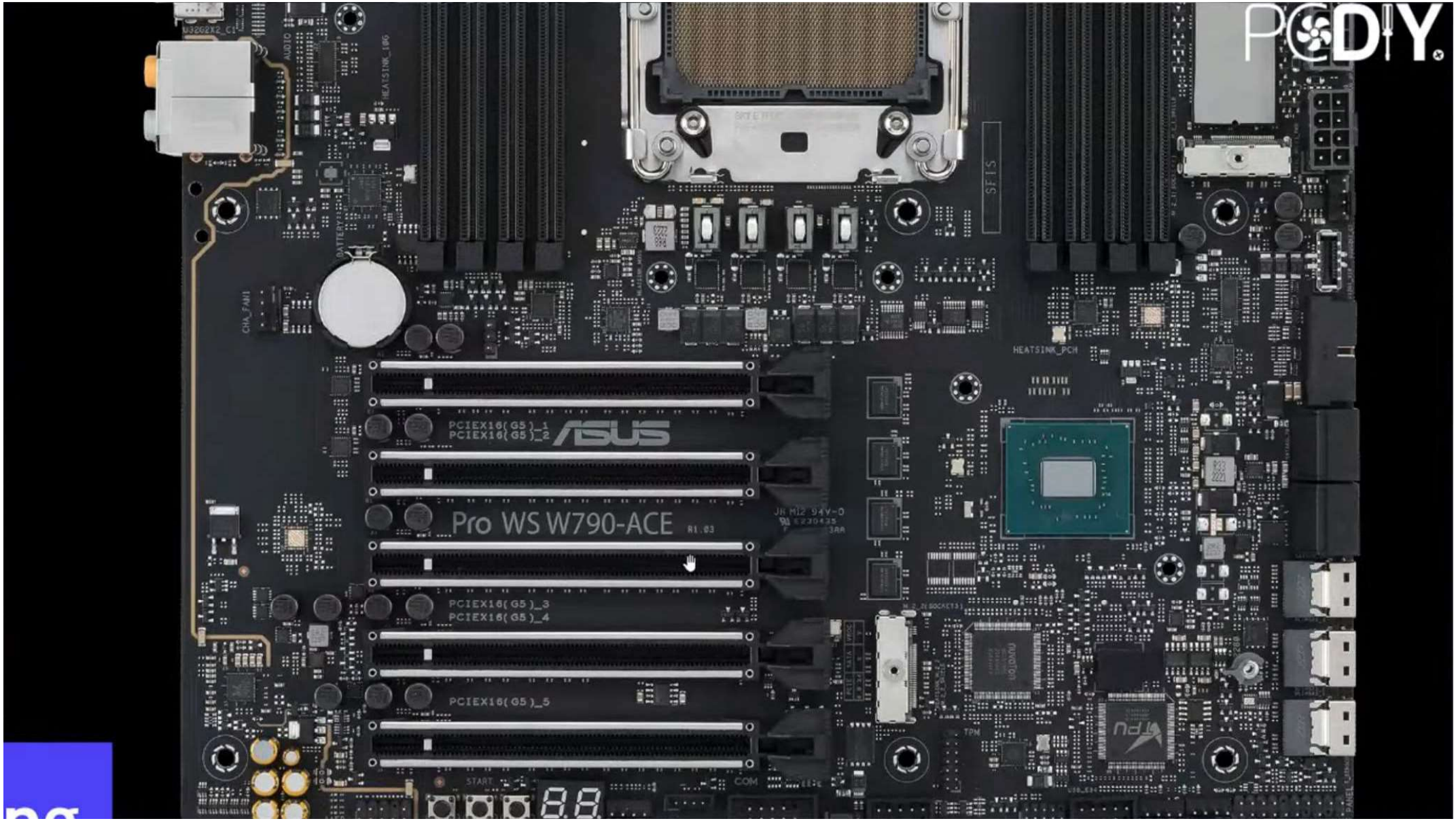
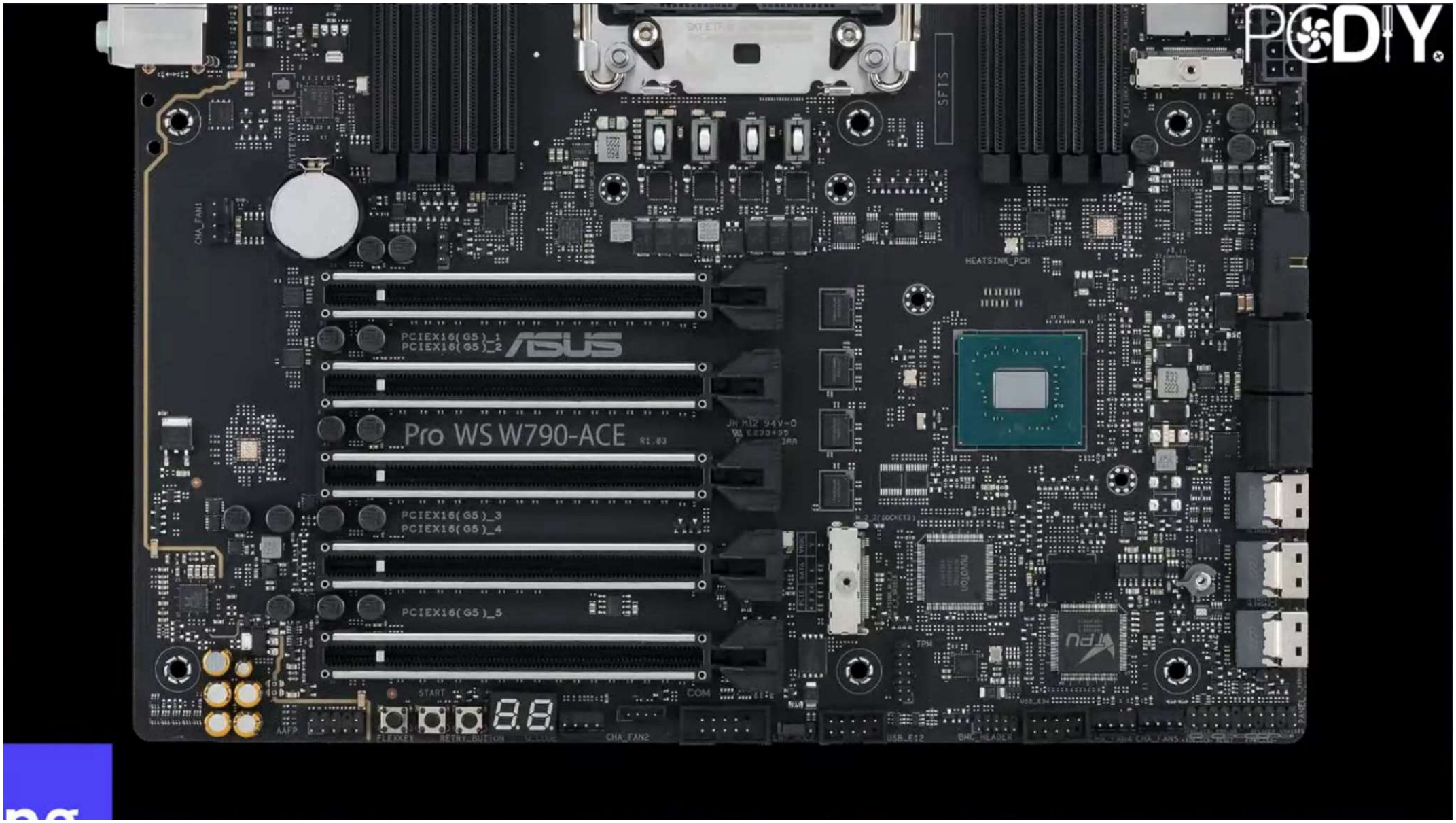
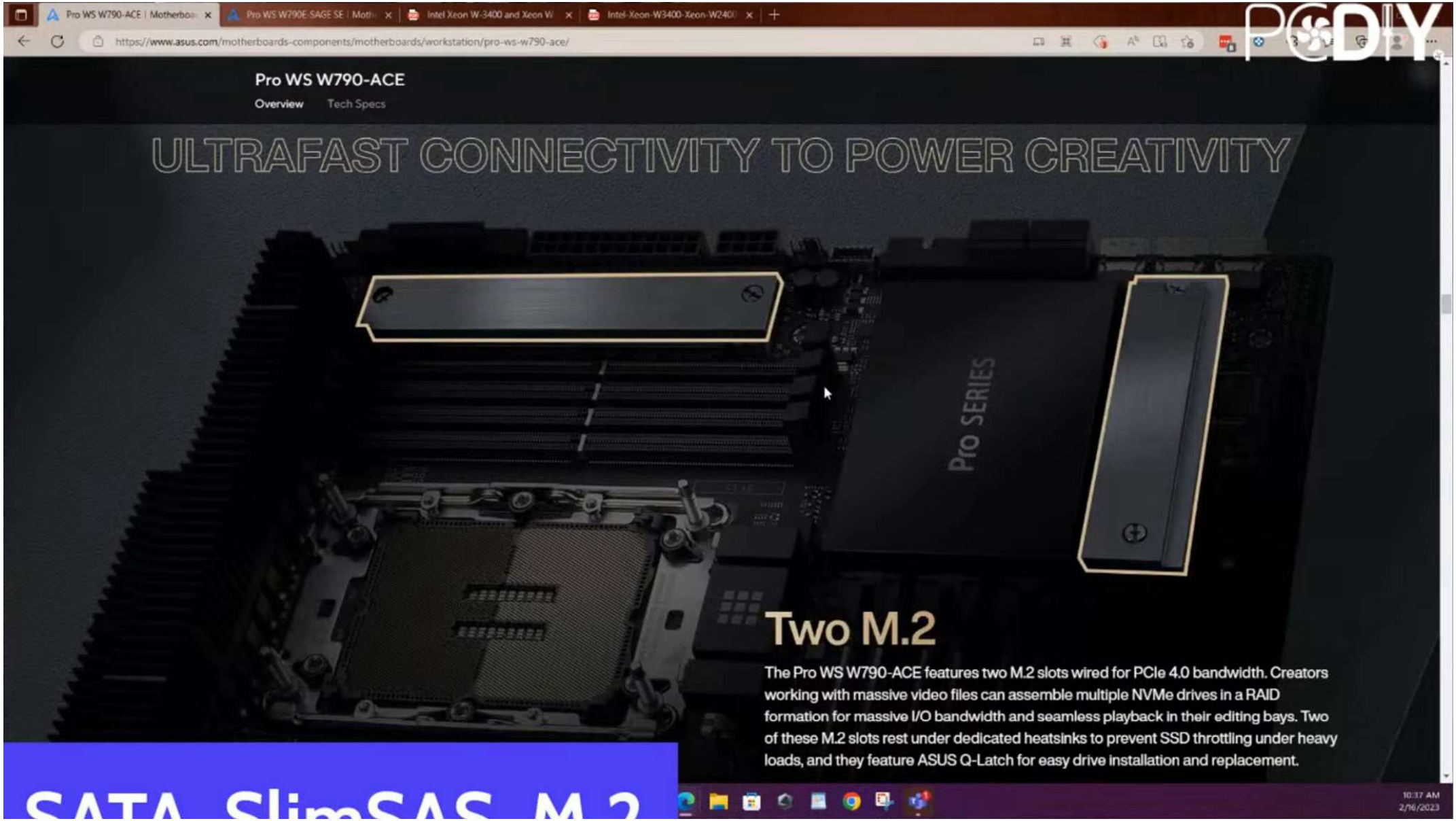
2/16/2023


PCIEX16(G5)_1
PCIEX16(G5)_2
ASUS
Pro WS W790-ACE
PCIEX16(G5)_3
PCIEX16(G5)_4
PCIEX16(G5)_5
HEATSINK_PCH
TPM


PCDIY
PCIEX16(G5)_1
PCIEX16(G5)_2
ASUS
Pro WS W790-ACE
PCIEX16(G5)_3
PCIEX16(G5)_4
PCIEX16(G5)_5
HEATSINK_PCH
SFIS
START
COM
AAFP
FLEXKEY
RETRY_BUTTON
CHA_FAN2
USB_E12
BMC_HEADER
TPM
CHA_FAN1
BATTERY

2-Pro WS W790-ACE, front view, with heatsinks.png
BUILT FOR PROS
Pro SERIES
Pro WS W790-ACE
PCIEX16(G5)_1
PCIEX16(G5)_2
PCIEX16(G5)_3
PCIEX16(G5)_4
PCIEX16(G5)_5
PCDIY
SATA, SlimSAS, M.2
10:36 AM
2/16/2023


Pro WS W790-ACE | Motherboa
Pro WS W790E-SAGE SE | Moth
Intel Xeon W-3400 and Xeon W
Intel-Xeon-W3400-Xeon-W2400
https://www.asus.com/motherboards-components/motherboards/workstation/pro-ws-w790-ace/
Pro WS W790-ACE
Overview
Tech Specs
ULTRAFAST CONNECTIVITY TO POWER CREATIVITY
Pro SERIES
Two M.2
The Pro WS W790-ACE features two M.2 slots wired for PCIe 4.0 bandwidth. Creators working with massive video files can assemble multiple NVMe drives in a RAID formation for massive I/O bandwidth and seamless playback in their editing bays. Two of these M.2 slots rest under dedicated heatsinks to prevent SSD throttling under heavy loads, and they feature ASUS Q-Latch for easy drive installation and replacement.
SATA SlimSAS M.2
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2/16/2023