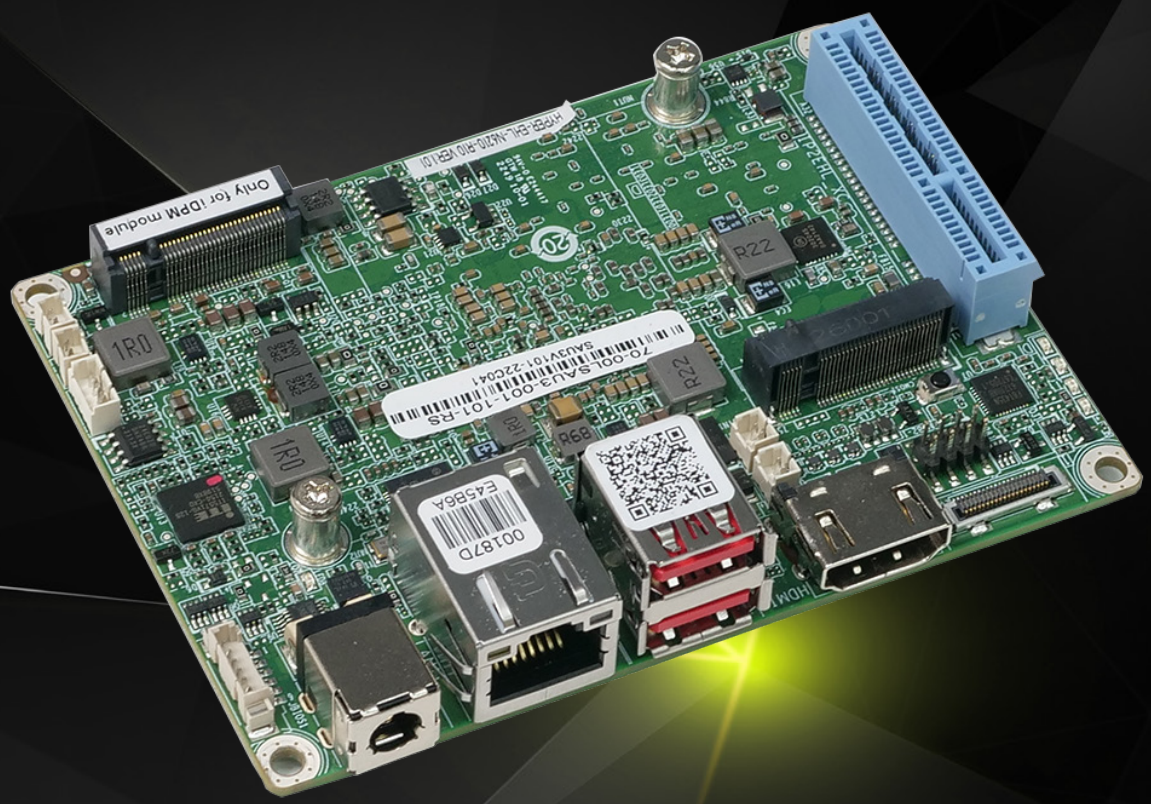
HYPER-EHL

www.contradata.it

PICO-ITX SBC supports Intel® Celeron J6412/N6210 on-board SoC, with 4GB LPDDR4x memory on board default

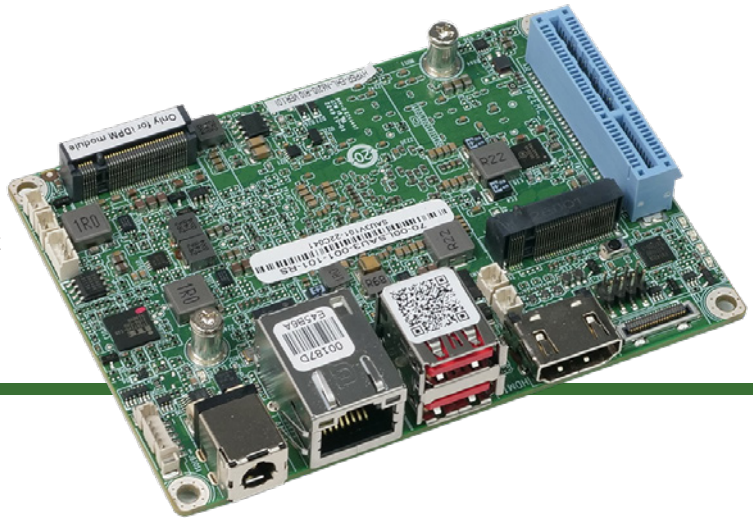
- PICO-ITX supports Intel® Celeron J6412/N6210 on-board SoC
- HDMI and iDPM support dual independent displays
- Support Intel® i225V 2.5GbE port
- One PCIe Gen3 x4 slot and one M.2 M key expansions
- Two USB 3.2 Gen1,two USB 2.0,one RS-232/422/485

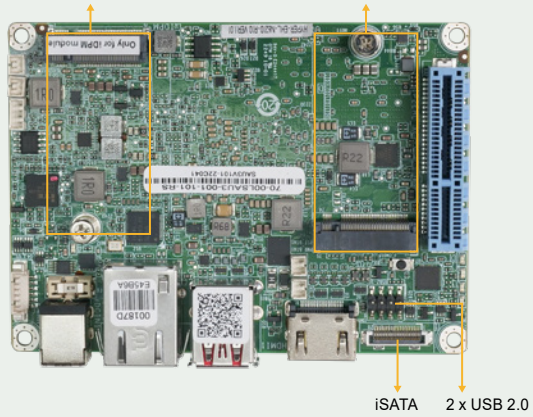


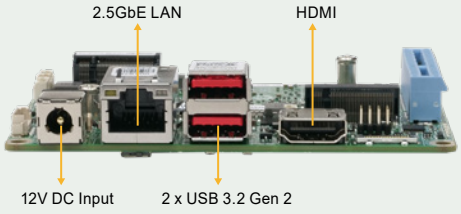
Contradata Milano S.r.l. - Via Solferino 12, 20900 Monza (MB) - Email: info@contradata.it - Phone: (+39) 039-230.14.92

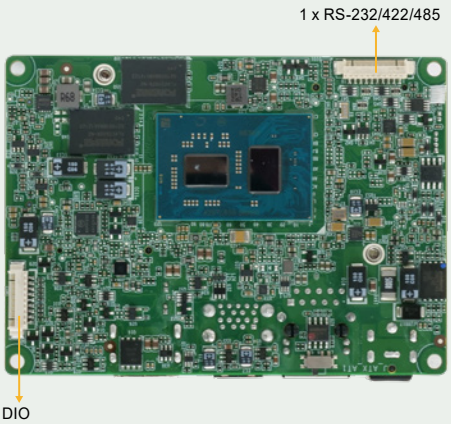
HYPER-EHL

PICO-ITX SBC supports Intel® Celeron J6412/N6210 on-board SoC, with 4GB LPDDR4x memory on board default









LPDDR4x 3200 | HDMI | iDPM | 2.5GbE LAN | M.2 | SATA 6Gb/s

Low-power Intel® Elkhart Lake Celeron® J6412 CPU

10nm Intel® Celeron® J6412 on-board SoC, 4 cores and 4 threads, base frequency 2.00GHz, turbo frequency up to 2.60GHz, 1.5MB cache

Supporting Intel® I225V 2.5GbE Controllers

One RJ45 network interfaces is supported via Intel® I225V 2.5GbE controller, achieving up to 2.5GbE network transmission rate

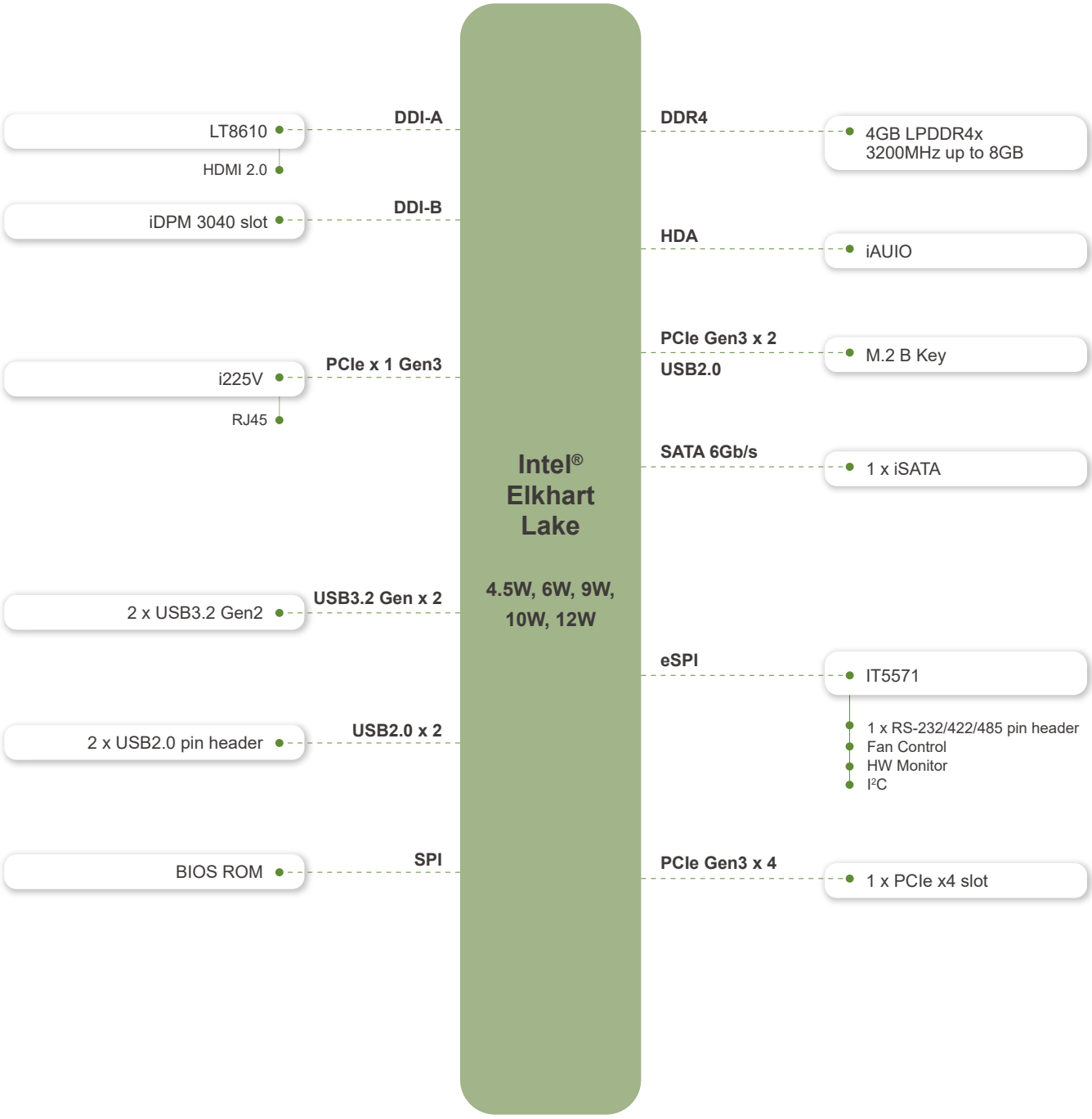
PCIe x4 Slot Available for Riser Card

One PCIe x4 slot (PCIe Gen3 x4 signal) is reserved on the edge of the motherboard, which can be used to connect a PCIe expansion card or a riser card designed by IEI.

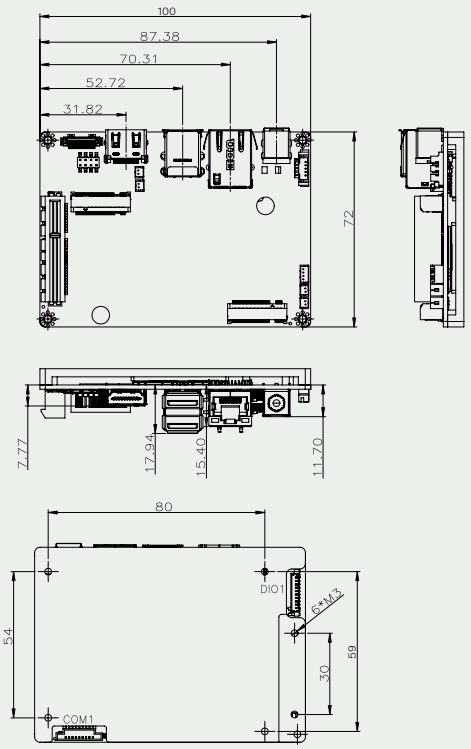
IEI-specific iDPM Interface

IEI uniquely designs a iDPM interface that can connect to display modules, enabling users to add LVDS/eDP/VGA display interface upon requirements.

HYPER-EHL Block Diagram



Dimensions



Optional accessories


CB-USB02A-RS

32102-000100-200-RS

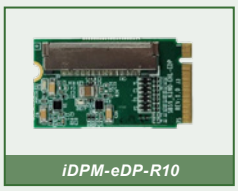

32005-003500-200-RS

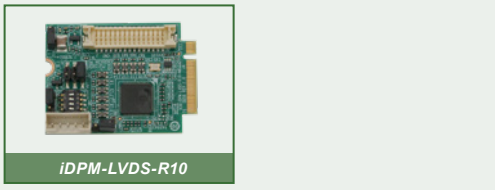
HPR-L2S-R10

HPR-L4S-R10

HPR-R2S-R10

HPR-R4S-R10


iDPM-eDP-R10


iDPM-LVDS-R10

Specifications

Model	HYPER-EHL
SoC	Onboard Intel® Atom™ x6000 series / Pentium® / Celeron® processor (Elkhart Lake platform) Intel® Celeron® J6412 on-board SoC (up to 2.6GHz, quad-core, 1.5M Cache, TDP=10W) Intel® Celeron® N6210 on-board SoC (up to 2.6GHz, dual-core, 1.5M Cache, TDP=6.5W)
BIOS	AMI UEFI BIOS
Memory	LPDDR4x-3200Gbps 4GB,up to 8GB
Graphics Engine	Intel® UHD Graphics (Gen11)
Display Output	1 x HDMI 1.4 (up to 4096x2160 @ 30Hz) 1 x iDPM 3040 slot (only for IEI eDP/LVDS/VGA module)
Ethernet	LAN1: Intel® I225V 2.5GbE controller
External I/O interface	2 x USB3.2 Gen2 (10Gb/s)
Internal I/O interface	2 x USB2.0 (2x4 pin, P=2.0) 1X iSATA 6Gb/s 1 x RS-232/422/485 (1x9 pin, P=1.25)
Front Panel	1 x front panel (power buttom 1x2pin P=1.25mm, reset buttom 1x2pin P=1.25mm)
Expansion	1 x M.2 M Key 2242(PCIe x2) 1 x PCIe x4 slot (PCIe Gen3 x4) x4 or x2+x2 or x1+x1+x1+x1
SMBus	1 x SMBus (1x4 pin)
Digital I/O	1 x 8-bit DIO (1x10 pin, P=1.25)
Power supply	12V DC input Support AT/ATX mode
Watchdog Timer	Software Programmable support 1~255 sec. System reset
Operating Temperature	0°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	5% ~95%, non-condensing
Power Consumption	TBD
Diemension	100mm*72mm
Weight	600g / NW: 250g
Certification	CE/FCC Compliant

Packing List

1 x HYPER-EHL single board computer with Cooler Module	1 x iSATA cable
1 x QIG	

Ordering Information

HYPER-EHL-J6412B-R10	PICO-ITX SBC supports Intel® quad-core Celeron® J6412 2.0GHz on-board SoC, with 4GB LPDDR4x memory on board default, with HDMI,iDPM,M.2 M key,USB 3.2,iSATA 6GB/s,COM,PCIe x4 for riser card and RoHS
HYPER-EHL-N6210B-R10	PICO-ITX SBC supports Intel® dual-core Celeron® N6210 1.2GHz on-board SoC,with 4GB LPDDR4x memory on board default,with HDMI,iDPM,M.2 M key,USB 3.2,iSATA 6GB/s,COM,PCIe x4 for riser card and RoHS

Optional Accessories

CB-USB02A-RS	Dual port USB cable with bracket, 300mm, P=2.00
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
32005-003500-200-RS	RS-232/422/485, 300mm, P=1.25
HPR-L2S-R10	PCIe x4 to two PCIe x2 riser card for HYPER on the left side
HPR-L4S-R10	PCIe x4 to four PCIe x1 left riser card for HYPER on the left side
HPR-R2S-R10	PCIe x4 to two PCIe x2 riser card for HYPER on the right side
HPR-R4S-R10	PCIe x4 to four PCIe x1 left riser card for HYPER on the right side
iDPM-eDP-R10	eDP to eDP DisplayPort converter board (for IEI iDPM connector)
iDPM-LVDS-R10	eDP to LVDS DisplayPort converter board (for IEI iDPM connector)