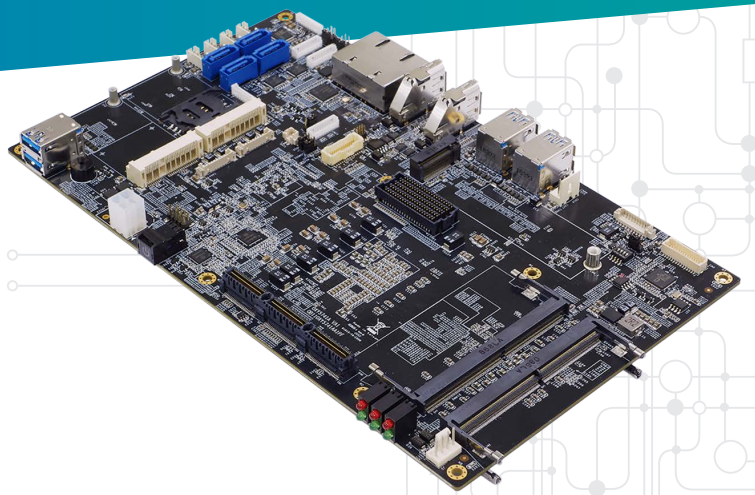
PERFECTRON

OXY5741A

OXY5741A

Ruggedised open-standard EBX SBC expansion,

Extended temperature -40°C to 85°C



- i5-8400H/i7-9850HL/i7-9850HE/E-2276ML/E-2276ME Processor
- PCIe/104 stackable bus structure(Type 2)
- FPE connector
  (1 *PCIe x 16 or 2* PCIe x8 or 1*PCIe x8+2*PCIe x4)
- 4 x DDR4 2400MHz SODIMM up to 128GB
- 2 x Full size Mini PCIe ; 1 xM.2 M-key
- Multi Display: 3 x Display Port, 1 x Dual Channe 24bit LVDS
- 4 x USB 3.1 Gen. 2(10Gbps), 2 x USB 3.0, 2 x USB 2.0
- Extended temperature -40°C to 85°C

Specifications

System

CPU	Core™ i7-9850HE Processor (6 Cores/12 Threads, 9M Cache, up to 4.40 GHz), 45W Core™i7-9850HL(6 Cores/12 Threads, 9M Cache, up to 4.10 GHz), 25W XEON E-2276ME(6 Cores/12 Threads, 12M Cache, up to 4.50 GHz), 45W XEON E-2276ML(6Core/12Threads ,12M Cache , up to 4.20GHz),25W Core™ i5-8400H Processor (6 Cores/12 Threads, 8M Cache, up to 4.20 GHz) TDP: 45W
Memory type	4 x DDR4 2400MHz SODIMM up to 128GB
Chipset	CM246
BIOS Core	AMI® UEFI BIOS
BIOS Flash	SPI Flash
Super I/O	ITE 8786
TPM	SLB9665 TPM 2.0
iAMT	iAMT 12.0
Watchdog	1-255 sec. or 1-255 min. software programmable and can be generate system reset

Display

Display Port	Resolution up to 4096 x 2304
Chipset	Intel® UHD Graphics 630
Video Memory	Shared Memory
LVDS	1* Dual Channel 24bit LVDS (w/auto-dimming support)

Audio

Codec	ALC887

Expansion Slot

M.2	1 x M.2 (M-key, type:2280, SATA/PCIe 3.0x4 NVMe)
mPCIe	2 x Full size (PCIe x1,USB 2.0 and micro SIM Card)
PCIe/104	TYPE 2
FPE	1 x FPE slot.

Note: Specifications are subject to change without prior notice

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Ethernet

Chipset	Intel® I210 & I219LM GbE LAN (10/100/1000 Mbps supported)
Disable LAN through BIOS	Yes
WOL	Yes
Boot from LAN	Yes for PXE

Rear I/O

Display Port	2*DIP Display Port Female 20P 90D UPRIGHT
USB3.0	2*DIP Double USB3.0 A Type
LAN	CONN DIP RJ45 1x2 Tab up w/Transformer 10/100/1000 Base-T w/LED Female

FRONT I/O

USB3.0(2.0)	1*DIP Double USB3.0(2.0), A Type
LED (Red/Green)	6 (HDD, 2 x LAN ACT+LINK) RED/GREEN LED
Power Button	1 (with LED)

Internal I/O header (No Edge I/O Needed)

SATA	4x SATAIII (RAID 0,1,5) , from 2 up to 4 ports
SATA power	4
LVDS	1 (1 x 30pin) or equal ---> W/Auto-dimming supports), Brightlight control
Inverter connector	1 (1 x 10pin)
VGA	N/A
DVI-I	N/A
DisplayPort	1 x DP from CPU
8 bit GPIO	1 (1 x 10pin)
COM	2 x RS232/422/485 (2 x 10pin)
SIM card holder	1 (Micro SIM) in mPCIe slot
USB 2.0	2 x (2x5Pin) box header
USB 3.0	N/A

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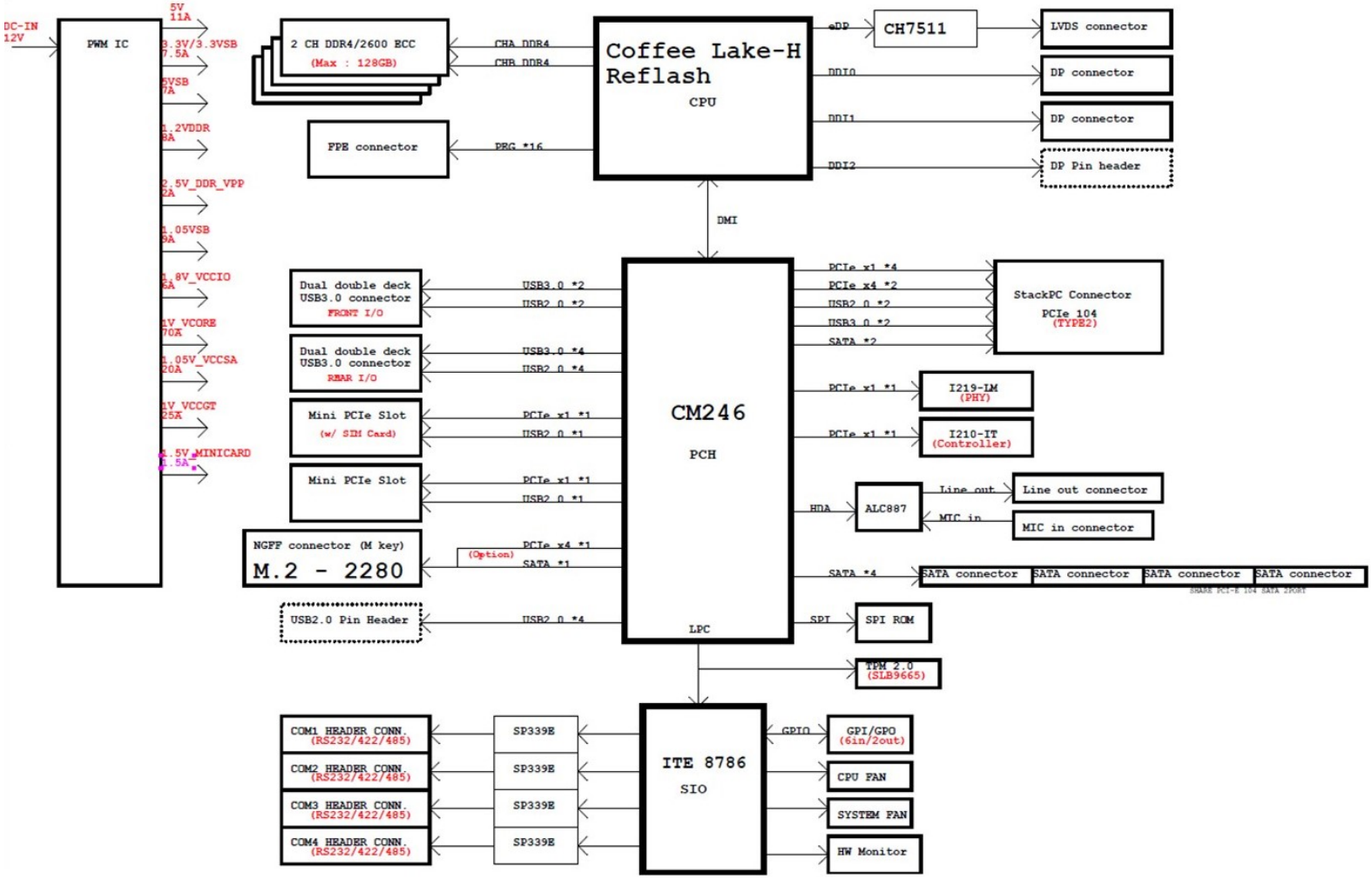
LAN	N/A
LAN LED	N/A
LPC	1
Front Panel	1 (2 x 5pin) Power BTN/HDD LED/Reset BTN/PWR LED
Smart Fan	1 x CPU Fan --->1 x 4-pin for CPU(PWM mode)
Audio (MIC-IN/ LINE-OUT)	1 (1 x 10pin)
Battery	1---> 1 x RTC battery holder
Power Connector	1 (4 x 2pin) horizontal type
Mechanical and Environmental	
Form Factor	EBX
Power Type	12V DC-IN
Power Consumption	250W
Dimension	146 mmX 243mm
Operating Temperature	-20℃ ~ 60℃
Storage Temperature	-40℃ ~ 85℃
Relative humidity	10% to 90%, non-condensing
Standard Compliance	
Standard Compliance	CE/FCC

Ordering Information

Model	Description
OXY5741A	Intel® 9th/8th Gen. Xeon/Core processor, EBX SBC, W/PCIe/104 expansion module
OXY5741C	Intel® 9th/8th Gen. Xeon/Core processor, EBX SBC

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Block Diagram



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