



Roadmap-IPC

ZRT Technology Co., Ltd

Edge AI solution provider, COME, MXM, COM-HPC,
SMARC and embedded PC solutions.

2025.03.25

PART.

1

New

MIN-M01

- Intel 11th Tiger Lake-H i5/i7/i9
- Max 64G DDR4
- 3*M.2
- 1*MXM 3.1
- 1*SATA3.0
- 2*DP+2*HDMI
- 3*USB3.2+2*USB2.0+Type-C
- 2*RJ45+1*10GE
- 2*COM
- 220*200*94.5mm





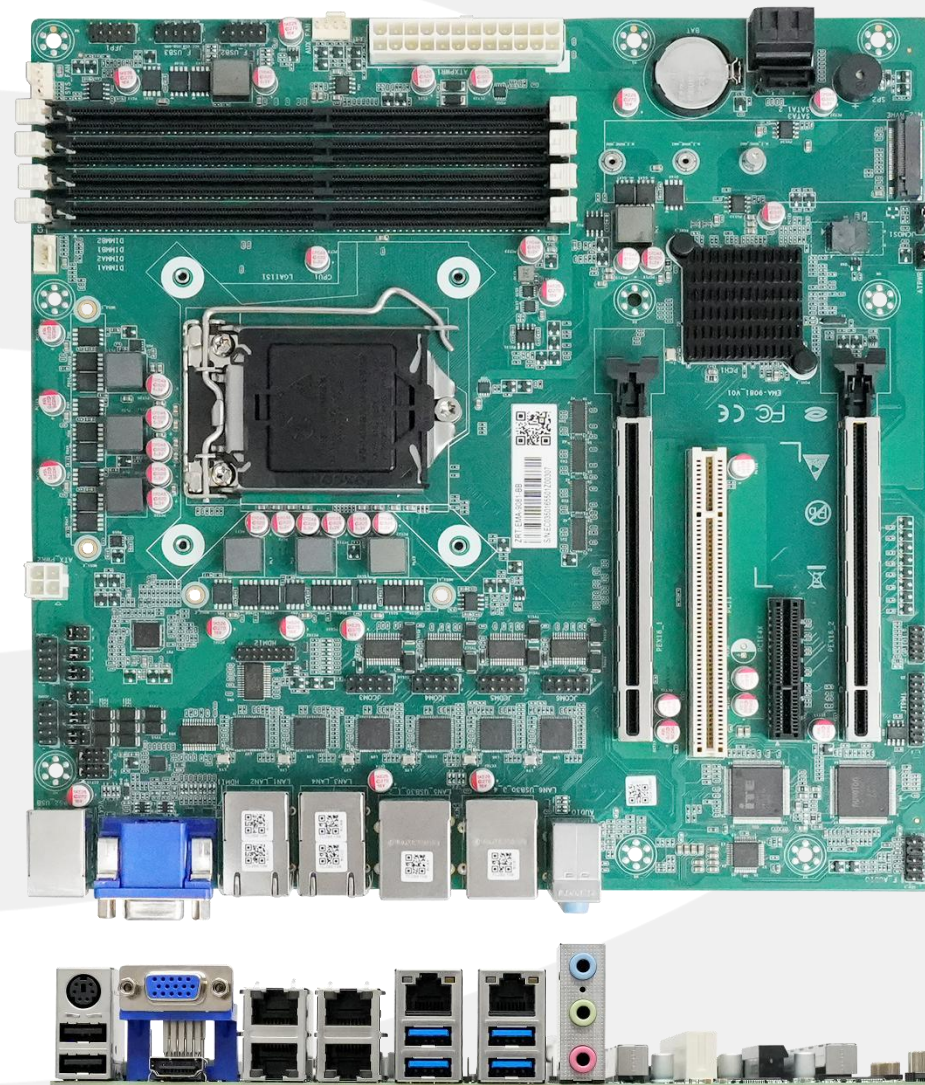
CDM-2U01

- Intel 12/13th Alder Lake-H i3/i5/i7/i9
- Max 64G DDR5
- 2*PCIe 16x
- 3*M.2
- 2*SATA3.0
- 1*DP+1*HDMI
- 4*USB3.1+2*USB2.0
- 4*RJ45
- 3*COM
- 280*268*90mm



EC9-Q170/H110

- Intel 9/8/7/6th Coffee Lake/Kaby Lake/Skylake
- Max 64G DDR4
- PCH H110 or Q170
- 2*PCIe 16x+1*PCIe 4x+1*PCI
- 3*SATA3.0
- 1*M.2
- 1*VGA+2*HDMI
- 4*USB3.0+6*USB2.0
- 2/6*RJ45
- 6*COM
- mATX(244*244mm)



PART.

2

Roadmap

2025

2025 Q3

Intel Core
ProcessorsLGA
Series3th Sandy/Ivy

ATX0-10701

ATX

EMA-B65

mATX

7th Kaby Lake6th Skylake

EMA-1302

ATX

EMA-1301

ATX

 EC0-Q170
mATX

 EC0-H110
mATX

ZRTB-11812

ITX MXM

EMA-7301

ITX

KCB12001
190*165mm MXM10th Coffee Lake

MBC-11001

228*218mm MXM

Ezt-Q370B

200*200mm MXM

Raptor Lake S Refresh

13th Raptor Lake S12th Alder Lake S

EC0-Q670 2025 Jun

ATX

EMA-1304

ATX

EC9-Q670 2025 Q3
mATX

EMA-8141

STX MXM

EMA-7133

ITX

EMA-7132

ITX

Bartlett Lake S

		2025				Q2	Q3
Intel Core Processors	H Series	7 th Kaby Lake	10 th Coffee Lake H	11 th Tiger Lake H	Meteor Lake H		Arrow Lake H
		6 th Skylake			13 th Raptor Lake		
					12 th Alder Lake		
		ITX-71101 ITX MXM	EMA-7102 ITX MXM	EMA-7112 2025 May ITX MXM	EMA-7U11 TBD ITX MXM		
				EMA-7103 ITX MXM			
	U/P Series	7 th Kaby Lake				Meteor Lake U	
6 th Skylake					13 th Raptor Lake		
					12 th Alder Lake		
EMB-3203 3.5"					EMB-3131 TBD 3.5"		
	EMB-3201 3.5"				EMB-2121 10*10cm		
Intel ATOM Processors		Bay Trail	11 th Elkhart Lake	12 th Alder Lake N	Twin Lake		
		EMB-3205 3.5"	EMB-3204 3.5"	EMB-4131 2025 Q3 4"			
		MB3-10101 3.5"	EMB-3204A 2025 May 3.5"				

STX

EMA-8141

- Intel Raptor Lake S Refresh/Raptor Lake S/Alder Lake S
- PCH H610/Q670
- Max 64G DDR5
- 2*M.2
- 4*SATA3.0
- 1*PCIe 4x
- 4*DP
- 2*HDMI
- 4*RJ45
- 4*DB9
- 170*190mm

EMA-7U11

TBD

- Intel Meteor Lake-H
- Max 64G DDR5
- 4*M.2
- 4*SATA3.0
- 1*PCIe 4x
- 1*DP
- 2*HDMI
- 1*LVDS/eDP
- 2*RJ45
- 2*DB9
- 4*USB3.2
- 4*USB4.0
- mITX(170*170mm)

mITX

EMA-7112

2025 Apr

- Intel Tiger Lake-H
- Max 64G DDR4
- 3*M.2
- 2*SATA3.0
- 1*PCIe 4x
- 2*DP
- 2*HDMI
- 1*LVDS/eDP
- 2*RJ45
- 2*DB9
- 4*USB3.2
- 4*USB4.0
- mITX(170*170mm)

EMA-7103

- Intel Tiger Lake-H
- PCH QM580
- Max 64G DDR4
- 3*M.2
- 1*PCIe 4x
- 1*SATA3.0
- 1*HDMI
- 1*DP
- 1*LVDS
- 1*HDMI or DP
- 2*RJ45
- 1*DB9
- mITX(170*170mm)

EMA-7102

- Intel Coffee Lake-H
- PCH QM370
- Max 64G DDR4
- 3*M.2
- 1*PCIe 4x
- 1*SATA 3.0
- 1*mSATA
- 1*HDMI
- 1*DP
- 1*eDP
- 1*LVDS
- 2*RJ45
- 1*DB9
- mITX(170*170mm)

ZRTB-11812

- Intel Skylake / Kaby Lake
- PCH H110
- Max 32G DDR4
- 1*Mini PCIe
- 1*M.2
- 1*SATA3.0
- 2*HDMI
- 2*DP
- 1*LVDS
- 1*RJ45
- mITX(190*170mm)

ITX-71101

- Intel Skylake HQ
- PCH QM170
- Max 32G DDR4
- 3*M.2
- 1*PCIe 4x
- 2*SATA3.0
- 2*HDMI
- 1*DP
- 1*eDP
- 2*RJ45
- 1*DB9
- mITX(170*170mm)

EZT-7201

- Intel Skylake-U
- Max 16G DDR4
- 2*M.2
- 2*SATA3.0
- 2*HDMI
- 1*DP
- 1*eDP
- 4*RJ45
- 4*DB9
- mITX(190*170mm)

ZRT Define

EZT-Q370B

- Intel Coffee lake-S
- PCH Q370
- Max 32G DDR4
- 3*M.2
- 1*SIM
- 1*SATA3.0
- 2*HDMI
- 1*DP
- 1*HDMI/DP
- 2*RJ45
- 6*DB9
- 200*200mm

ZRTK-17611A

- Intel Skylake/Kaby Lake
- PCH B250
- Max 32G DDR4
- 1*M.2
- 1*mSATA
- 1*SATA3.0
- 1*HDMI
- 1*RJ45
- 1*RS232/422/485
- 4*USB3.0
- 2*USB2.0
- 180*195mm

KBC12001

- Intel Skylake / Kaby Lake
- Max 32G DDR4
- 2*Mini PCIe
- 2*M.2
- 1*SIM
- 1*SATA3.0
- 2*HDMI
- 1*DP
- 2*RJ45
- 2*DB9
- 190*165mm

MBC-11001

- Intel Skylake / Kaby Lake
- Max 32G DDR4
- 2*Mini PCIe
- 1*M.2
- 2*SIM
- 2*SATA3.0
- 1*mSATA
- 2*HDMI
- 4*DP
- 1*VGA
- 1*LVDS/eDP
- 4*DB9
- 228*218mm

ATX

EC0-Q670

2025 Jun

- Intel Raptor Lake S Refresh/Raptor Lake
- PCH Q670
- Max 128G DDR5
- 2*PCIe 16x+3*PCIe 4x+2*PCI
- 4*SATA3.0
- 1*M.2
- 2*HDMI+1*VGA+1*DVI+1*DP
- 2*DB9
- 4*USB3.2+6*USB2.0
- ATX(308.8*244mm)

EMA-1302

- Intel 6/7th Skylake/Kaby Lake
- PCH Q170
- Max 128G DDR4
- 2*PCIe 16x+3*PCIe 4x+2*PCI
- 4*SATA3.0
- 1*mSATA
- 1*HDMI+1*VGA+1*DVI
- 6*DB9
- 6*USB3.0+7*USB2.0
- ATX(308.8*244mm)

EMA-1301

- Intel 6/7th Skylake/Kaby Lake
- PCH Q170
- Max 128G DDR4
- 1*PCIe 16x+1*PCIe 4x+1*PCIe 1x+4*PCI
- 4*SATA3.0
- 1*mSATA
- 1*HDMI+1*VGA
- 6*DB9
- 6*USB3.0+7*USB2.0
- ATX(308.8*244mm)

mATX

EC9-Q670

2025 Q3

- Intel Raptor Lake S Refresh/Raptor Lake
- PCH Q670
- Max 128G DDR5
- 2*PCIe 16x+1*PCIe 4x+1*PCI
- 4*SATA3.0
- 2*M.2
- 1*HDMI+1*VGA+1*D P
- 6*DB9
- 4*USB3.2+5*USB2.0
- 243.8*243.8mm

EMA-B65

- Intel Sandy/Ivy
- PCH B65
- Max 16G DDR3
- 1*PCIe 16x+1*PCIe 4x+2*PCI
- 4*SATA
- 1*mSATA
- 1*DVI+1*VGA
- 2*RJ45
- 6*DB9
- 9*USB2.0
- 243.8*243.8mm

EMA-7133

- Intel 12th Alder Lake
- SOC
- Max 64G DDR4
- 2*SATA3.0
- 2*M.2
- 2*HDMI+1*VGA+1*L VDS+1*eDP
- 1*RJ45
- 2*DB9
- 2*USB3.1+4*USB2.0
- mITX(170*170mm)

EMA-1304

- Intel 12/13th Raptor Lake/Alder Lake
- PCH Q670
- Max 128G DDR5
- 1*PCIe 16x+4*PCIe 4x+2*PCI
- 4*SATA3.0
- 1*M.2
- 2*HDMI+1*VGA+1*DP
- 2*DB9
- 6*USB3.0+7*USB2.0
- ATX(308.8*244mm)

EMA-1301H

- Intel 6/7th Skylake/Kaby Lake
- PCH H110
- Max 64G DDR4
- 1*PCIe 16x+1*PCIe 1x+4*PCI
- 3*SATA3.0
- 1*mSATA
- 1*HDMI+1*VGA
- 6*DB9
- 4*USB3.0+7*USB2.0
- ATX(308.8*244mm)

ATX0-10701

- Intel Sandy/Ivy
- PCH B75
- Max 32G DDR3
- 1*PCIe 16x+1*PCIe 4x+1*PCIe 1x+4*PCI
- 5*SATA3.0
- 1*mSATA
- 1*DVI+1*VGA
- 6*DB9
- 4*USB3.0+9*USB2.0
- ATX(308.8*244mm)

NEW

EC9-Q170/H110

- Intel 6/7/8/9th Skylake/Kaby Lake/Coffee Lake
- PCH H110
- Max 64G DDR4
- 2*PCIe 16x+1*PCIe 4x+1*PCI
- 3*SATA3.0
- 1*M.2
- 2*HDMI+1*VGA
- 6*DB9
- 4*USB3.0+4*USB2.0
- 244*244mm

EMA-7132

- Intel 12/13th Alder Lake/Raptor Lake-H
- Max 64G DDR5
- 1*PCIe 16x+1*PCIe 4x
- 2*SATA3.0
- 3*M.2
- 2*HDMI+1*DP
- 4*RJ45
- 2*DB9
- 4*USB3.1+2*USB2.0
- mITX(170*170mm)

EMA-7301

- Intel 6/7th Skylake / Kaby Lake
- PCH H110
- Max 32G DDR4
- 1*PCIe 16x
- 2*SATA3.0
- 1*mSATA
- 1*HDMI1.4a+1*VGA
- 6*RJ45
- 3*DB9
- 4*USB3.0+4*USB2.0
- mITX(170*170mm)

4"

EMB-4131

2025 Q3

- Intel 13th Raptor Lake-U
- 64G DDR5
- 2*M.2
- 1*SATA
- 1*SIM
- 2*HDMI
- 1*eDP/LVDS
- 4*USB 3.2
- 4*USB2.0
- 3*RJ45
- 4*RS232/485/422
- 4"(165*115mm)

3.5"

EMB-3201

- Intel 6/7th Skylake/Kaby lake-U
- 32G DDR4
- 2*M.2
- 1*SIM
- 1*PCIe 4.0
- 1*SATA3.0
- 1*HDMI+1*LVDS (Option eDP)
- 2*RJ45
- 6*DB9
- 3.5"(146*101mm)

EMB-3204A

2025 May

- Intel Pentium J6412
- 32G DDR4
- 2*M.2
- 1*SATA3.0
- 2*HDMI
- 1*LVDS
- 2*RJ45
- 4*RS232
- 4*USB3.0
- 4*USB2.0
- 3.5"(146*113.6mm)

100*100mm

EMB-2121

- Intel 12th Alder Lake-U/P
- 64G DDR5
- 2*M.2
- 1*SATA3.0
- 2*HDMI2.0
- 2*Type C
- 2*USB3.2
- 1*USB2.0
- 2*RJ45
- 2*RS232
- 100*100mm

Other

EMB-3205

- Intel Bay-trail J1900
- Max 8G DDR3L
- 1*mSATA
- 1*HDMI1.4a
- 1*VGA
- 1*RJ45
- 3*DB9
- 4*USB3.0
- 2*USB2.0
- 121*129*1.6mm

EMB-3121

TBD

- Intel 12th Alder Lake-U
- 64G DDR4/5
- 1*HDMI
- 1*DP
- 1*LVDS or eDP
- 4 *USB 3.2
- 4*USB2.0
- 2*RJ45
- 2*RS232
- 2*RS485
- 3.5"(146*101mm)

EMB-3203

- Intel 6/7th Skylake/Kaby lake-U
- 32G DDR4
- 1*Mini PCIe
- 1*SIM
- 1*SATA3.0
- 1*mSATA
- 1*HDMI+1*VGA+1*LVDS (Option eDP)
- 3 *RJ45
- 4*DB9
- 3.5"(146*101mm)

EMB-3204

- Intel Pentium J6412
- 32G DDR4
- 2*M.2
- 1*Mini PCIe
- 1*SATA3.0
- 3*HDMI
- 1*LVDS
- 1*TV-Out
- 1*RJ45
- 2*DB9
- 4*USB3.0+2*USB2.0
- 3.5"(146*113.6mm)

MB3-10101

- Intel Celeron J1800/J1900
- 4G DDR3L
- 1*Mini PCIe
- 1*SIM
- 1*SATA3.0
- 1*mSATA
- 1*HDMI
- 1*VGA
- 2*RJ45
- 6*DB9
- 3.5"(146*101mm)

12th Alder Lake

NEW MIN-M01

- Intel Raptor Lake S Refresh/Raptor Lake S/Alder Lake S
- PCH H610/Q670
- Max 64G DDR5
- 2*M.2
- 1*SATA3.0
- 2*HDMI
- 4*DP
- 4*RJ45
- 4*DB9
- 4*USB3.0
- 4*USB2.0
- 304*233*115mm

CDM-2U02 TBD

- Intel Raptor Lake/Alder Lake
- PCH H610/Q670
- Max 64G DDR5
- 2*M.2
- 1*SATA3.0
- 1*HDMI
- 3*DP
- 4*RJ45
- 4*DB9
- 4*USB3.0
- 4*USB2.0
- 1*PCIe 4x

11th Tiger Lake

MIN-EC09B

- Intel Tiger Lake-H
- PCH QM580
- Max 64G DDR4
- 3*M.2
- 1*SIM
- 1*SATA3.0
- 2*HDMI
- 1*DP
- 2*RJ45
- 1*DB9
- 6*USB3.0
- 2*USB2.0
- 1*Type C
- 230*176*83.5mm

MIN-EC10

- Intel Tiger Lake-H
- PCH QM580
- Max 64G DDR4
- 3*M.2
- 1*SIM
- 1*SATA3.0
- 2*HDMI
- 1*DP
- 2*RJ45
- 1*DB9
- 5*USB3.0
- 1*Type C
- 285*225*98mm

CDM-2U03 TBD

- Intel Tiger Lake-H
- PCH QM580
- Max 64G DDR4
- 3*M.2
- 1*SIM
- 2*SATA
- 2*RJ45
- 2*DP
- 2*HDMI
- 4*USB3.2
- 4*USB2.0
- 220*200*94.5mm

HLC-6009 2025 Apr

- Intel Tiger Lake-H
- PCH QM580
- Max 64G DDR4
- 3*M.2
- 1*SIM
- 2*SATA
- 2*RJ45+1*千兆
- 2*DP
- 2*HDMI
- 4*USB3.2
- 4*USB2.0
- 2*RS232
- 220*200*94.5mm

HLC-6008 2025 Apr

- Intel Tiger Lake-H
- PCH QM580
- Max 64G DDR4
- 3*M.2
- 1*SIM
- 2*SATA
- 2*RJ45
- 2*DP
- 2*HDMI
- 4*USB3.2
- 4*USB2.0
- 220*200*94.5mm

EOL HLC-6007

- Intel Tiger Lake-H
- PCH QM580
- Max 64G DDR4
- 3*M.2
- 1*SIM
- 1*SATA
- 2*RJ45+1*千兆
- 2*DP
- 2*HDMI
- 3*USB3.0
- 2*USB2.0
- 2*RS232
- 220*200*94.5mm

10th Coffee Lake

MIN-EC09A

- Intel Coffee Lake-H
- Max 32G DDR4
- 3*M.2
- 2*HDMI
- 1*DP
- 2*RJ45
- 2*DB9
- 6*USB3.0+4*USB2.0
- 282*208*79.5mm

MIN-EC09C

- Intel Coffee Lake-H
- Max 64G DDR4
- 3*M.2
- 2*RJ45
- 1*DP
- 1*HDMI
- 4*USB3.0
- 4*USB2.0
- 230*176*83.5mm

EOL HLC-6006

- Intel Tiger Lake-H
- Max 64G DDR4
- 3*M.2
- 2*RJ45
- 1*DP
- 1*HDMI
- 4*USB3.0
- 4*USB2.0
- 220*200*94.5mm

MIN-EC05A

- Intel Coffee Lake-S
- Max 32G DDR4
- 3*M.2
- 2*HDMI
- 1*DP
- 2*RJ45
- 2*DB9
- 6*USB3.0+2*USB2.0
- 235*206*52mm

MIN-EC05B

- Intel Coffee Lake-S
- Max 32G DDR4
- 3*M.2
- 2*HDMI
- 1*DP
- 2*RJ45
- 10*DB9
- 6*USB3.0+4*USB2.0
- 242*206*76mm

EAC-Z01-A

- Intel Coffee Lake-H
- Max 64G DDR4
- 3*M.2
- 1*HDMI
- 1*DP
- 2*RJ45
- 1*Capture Card
- 3*USB3.0+2*USB2.0
- 365*245*77.5mm

6th Skylake/7th Kaby Lake



EAC-CC02-B00

- Intel Skylake/ Kaby Lake
- PCH Q170
- Max 32G DDR4
- 2*M.2
- 7*RJ45
- 3*DB9
- 4*DP
- 2*HDMI
- 335*224*98mm



EAC-CC02-C00

- Intel Skylake/ Kaby Lake
- PCH Q170
- Max 32G DDR4
- 2*M.2
- 2*HDMI
- 4*DP
- 7*RJ45
- 3*DB9
- 335*224*98mm



EAC-CC02-E00

- Intel Skylake/ Kaby Lake
- Max 32G DDR4
- 2*M.2
- 3*RJ45
- 1*DB9
- 4*DP
- 2*HDMI
- Capture 2*HDMI
- 335*224*98mm



EAC-CC02-A00

- Intel Skylake/ Kaby Lake
- PCH Q170
- Max 32G DDR4
- 2*M.2
- 3*RJ45
- 1*DB9
- 4*DP
- 2*HDMI
- 335*224*98mm



MIN-EC02

- Intel Skylake/ Kaby Lake
- PCH B250
- Max 32G DDR4
- 2*M.2
- 2*HDMI
- 1*DP
- 2*RJ45
- 2*DB9
- 190*210*69mm



EAC-CC02-AC0

- Intel Skylake-S/ Kaby Lake-S
- PCH Q170/H110
- Max 32G DDR4
- 1*M.2
- 3*RJ45
- 2*DB9
- 335*222.5*98mm

12/13th Alder Lake、Raptor Lake



APU-4U04 Liquid Cooling

- Intel 12/13th Alder Lake/Raptor Lake
- Max 128G DDR5
- 1*M.2
- 1*Mini PCIe
- 4*SATA
- 4*RJ45
- 8*USB3.2
- 3*USB2.0
- 2*PCIe 16x
- 1*PCIe 8x
- 2*PCI
- 1*DP++
- 1*VGA
- 2*RS232(Optional)
- 2*RS232/422/485(Optional)
- 366*198*355mm

COMING SOON

APU-4U03 TBD

- Intel 12/13th Alder Lake/Raptor Lake
- Max 128G DDR5
- 1*M.2
- 1*Mini PCIe
- 4*SATA
- 4*RJ45
- 8*USB3.2
- 3*USB2.0
- 2*PCIe 16x
- 1*PCIe 8x
- 2*PCI
- 1*DP++
- 1*VGA
- 2*RS232(Optional)
- 2*RS232/422/485(Optional)

12/13th Alder Lake-H、Raptor Lake-H



CDM-4U01

- Intel 12/13th Alder Lake-H/Raptor Lake-H
- Max 64G DDR5
- 3*M.2
- 2*SATA
- 4*RJ45
- 4*USB3.1
- 2*USB2.0
- 2*PCIe 16x
- 1*DP
- 1*HDMI
- 2*RS232(Optional)
- 2*RS485(Optional)
- 280*272*145mm

COMING SOON

CDM-4U02 TBD

- Intel 12/13th Alder Lake-H/Raptor Lake-H
- Max 64G DDR5
- 3*M.2
- 2*SATA
- 4*RJ45
- 4*USB3.1
- 2*USB2.0
- 2*PCIe 16x
- 1*DP
- 1*HDMI
- 2*RS232(Optional)
- 2*RS485(Optional)



CDM-2U01 for CT/DR

- Intel 12/13th Alder Lake-H/Raptor Lake-H
- Max 64G DDR5
- 3*M.2
- 2*SATA
- 4*RJ45
- 4*USB3.1
- 2*USB2.0
- 2*PCIe 16x
- 1*DP
- 1*HDMI
- 2*RS232
- 2*RS485
- 280*268*90mm

4U

APC-883T

- Gray
- Support EMC
- 470*427*177.5mm
- For ATX/mATX



APC-883T

- Black
- Support EMC
- 470*427*177.5mm
- For ATX/mATX



Embedded/Desktop

APC-7190T

- White
- 330*360.3*190mm
- For ATX/mATX



APC-7180T

- 4.7kg
- Gray
- 330*323*180mm
- For ATX/mATX



APC-B2002T

- Black
- 245*245*89mm
- For EMA-7301



Fanless

EFC-D202

- 1.1kg
- Gray
- 203*112*58mm
- For MB3-10101



EFC-D203

- Gray
- 203.4*129.4*84.2mm
- For EMA-3201



PART.

3

3.5" /Others Series

Specification



EMB-3203	EMB-3201	EMB-3204	EMB-3205	MB3-10101
Intel 6/7 th Skylake-U / Kaby Lake-U	Intel 6/7 th Skylake-U / Kaby Lake-U	Intel Elkhart Lake Celeron	Intel Celeron J1800/J1900	Intel Celeron J1800/J1900
32G DDR4	32G DDR4	32G DDR4	8G DDR3L	4G DDR3L
N/A	1*M.2 M-Key(2280)for NVMe/SATA 1*M.2 B-Key(2260)for 4G/5G	1*M.2 Key-M(2242 / 2280) for NVMe 1*M.2 Key-E(2230) for WIFI/Bluetooth	N/A	N/A
1*SIM	1*SIM	N/A	N/A	1*SIM
1*SATA3.0 SATA 6Gb/s 1*mSATA	1*SATA3.0 SATA 6Gb/s	1*SATA3.0(7 Pins)	1*mSATA	1*SATA3.0 SATA 6Gb/s 1*mSATA for SSD
1*HDMI1.4a 1*VGA 1*LVDS(Optional eDP)	1*HDMI1.4 1*LVDS(Optional eDP)	2*HDMI 2.0 1*S Video 1*HDMI 2.0 1*LVDS(Optional eDP)	1*HDMI1.4a 1*VGA	1*HDMI1.4a 1*VGA 1*eDP or LVDS 1*VGA
1*RS232/RS485/RS422 3*RS232	2*RS232/RS485/RS422 4*RS232	4*RS232	N/A	4*RS232 2*RS232/RS422/RS485
3*RJ45 10/100/1000M	2*RJ45 10/100/1000M	2*RJ45 10/100/1000M/2.5GB	1*RJ45 10/100/1000M	2*RJ45 10/100/1000M
146*101mm	146*101mm	146*113.6mm	121*129*1.6mm	146*101mm

13th Raptor Lake Series

COMING SOON

EMB-4131

2025 Q3

- Intel 13th Raptor Lake-U
- 64G DDR5
- 2*M.2
- 1*SATA
- 1*SIM
- 2*HDMI
- 1*eDP/LVDS
- 4*USB 3.2
- 4*USB2.0
- 3+RJ45
- 4*RS232/485/422
- 4"(165*115mm)

12th Alder Lake Series



EMB-2121

- Intel 12th Alder Lake-U/P
- 64G 4800MHz DDR5
- 2*M.2
- 1*SATA3.0
- 2*HDMI2.0
- 2*Type C
- 2*USB3.2
- 1*USB2.0
- 2*RJ45
- 2*RS232
- 100*100mm

Celeron Series



EMB-3205

- Intel Bay-trail J1900
- Max 8G DDR3L
- 1*mSATA
- 1*HDMI1.4a
- 1*VGA
- 1*RJ45
- 3*DB9
- 4*USB3.0
- 2*USB2.0
- 121*129*1.6mm



<i>EFC-D203(EMB-3201)</i>
Intel 6/7 th Skylake/Kaby Lake-U Series
32G DDR4
2*M.2
1*SATA3.0
1*HDMI
2*USB3.0+5*USB2.0
4*RJ45
2*RS232/422/485 1*SIM
170.4*129.4*84.2mm

Model
CPU
Memory
M.2
SATA
Display
USB
LAN
Others
Dimension



<i>EFC-D202(MB3-10101)</i>
Intel Celeron J1800/J1900 Series
4G DDR3L
2*M.2
1*SATA3.0
1*HDMI+1*VGA
1*USB3.0+1*USB2.0
2*RJ45
1*SIM 1*Mini PCIe
203*112*58mm

PART.

4

MXM Series

Roadmap-mITX(MXM)

14th Meteor Lake

12th Alder Lake

11th Tiger Lake

10th Coffee Lake

6th Skylake/7th Kaby Lake

STX

EMA-8141

Raptor Lake S
Refresh
H610/Q670
64G DDR5
4*RJ45/4*DB9
4*DP+2*HDMI
170*190mm

mITX

EMA-7U11

TBD

Meteor Lake-H
64G DDR5
2*RJ45/2*DB9
1*DP+2*HDMI
1*LVDS/eDP
170*170mm

EMA-7112 2025 Mar

Tiger Lake-H QM580
64G DDR4
2*RJ45/2*DB9
2*HDMI+2*DP
1*eDP/LVDS
170*170mm

EMA-7103

Tiger Lake-H QM580
64G DDR4
2*RJ45/1*DB9
1*HDMI+1*DP
1*eDP+1*LVDS
170*170mm

EMA-7102

Coffee Lake-H
QM370
64G DDR4
2*RJ45/1*DB9
1*HDMI+1*DP
1*eDP+1*LVDS
170*170mm

ZRTB-11812

Skylake/Kaby Lake
H110
32G DDR/4*RJ45
2*HDMI+2*DP
1*LVDS
190*170mm

EZT-7201

Skylake-U
16G DDR4
4*RJ45/4*DB9
2*HDMI+1*DP
1*eDP
190*170mm

ITX-71101

Skylake-HQ QM170
32G DDR4
2*RJ45/1*DB9
2*HDMI+1*DP
1*eDP
170*170mm

ZRT
Define

EZT-Q370B

Coffee Lake-S Q370
32G DDR4
2*RJ45/6*DB9
2*HDMI+1*DP
200*200mm

KBC12001

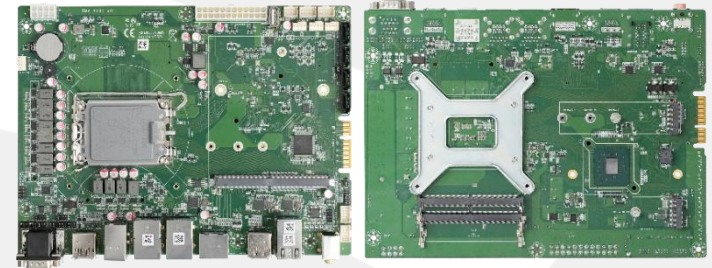
Skylake/Kaby Lake
B250
32G DDR4
2*RJ45/2*DB9
2*HDMI+1*DP
190*165mm

MBC-11001

Skylake/Kaby Lake
Q170
32G DDR4
3*RJ45/4*DB9
2*HDMI+4*DP/1*V
GA+1*LVDS/eDP
228*218mm

ZRTK-17611A

Skylake/Kaby Lake
B250
32G DDR4/1*RJ45
1*HDMI
180*195mm

COMING SOON

<i>EMA-7U11</i>
Intel Meteor –H Series
PCH Q370
Max 64G DDR4
3*M.2 1*SATA3.0 1*SIM
1*DP+2*HDMI+1*DP or HDMI
6*USB3.0+4*USB2.0
2*RJ45
2*RS232/422/485+4*RS232
200*200mm

Model
CPU
PCH
Memory
Expansion Slot
Display
USB
LAN
COM
Dimension

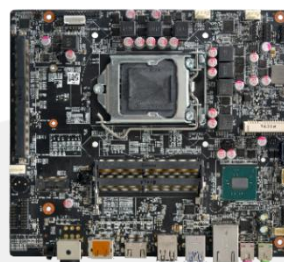
<i>EMA-8141</i>
Intel Alder Lake S Raptor Lake S Refresh Series
PCH H610/Q670
Max 64G DDR5
2*M.2 4*SATA3.0 1*PCIe 4x
4*DP+2*HDMI
4*USB3.0+7*USB2.0
4*RJ45
2*RS232/422/485+2*RS232
243.8*180mm

Coffee Lake/Tiger Lake Series



<i>EMA-7112</i>	<i>EMA-7103</i>	<i>EMA-7102</i>	<i>EZT-Q370B</i>
Intel Tiger Lake-H	Intel Tiger Lake-H	Intel Coffee Lake-H	Intel Coffee Lake
QM580	QM580	QM370	Q370
Max 64G DDR4	Max 64G DDR4	Max 64G DDR4	Max 64G DDR4
3*M.2 1*SIM	3*M.2 1*SIM	3*M.2 1*SIM	3*M.2 1*SIM
2*SATA3.0	1*SATA3.0	1*SATA3.0	1*SATA3.0
2*HDMI 2*DP 1*LVDS/eDP	1*HDMI 1*DP 1*DP or HDMI 1*LVDS/eDP	1*HDMI 1*DP 1*DP or HDMI 1*LVDS/eDP	2*HDMI 1*DP 1*DP or HDMI
2*RJ45	2*RJ45	2*RJ45	2*RJ45
2*COM	1*COM	1*COM	6*COM
170*170mm	170*170mm	170*170mm	200*200mm

Skylake/Kaby Lake Series



<i>EZT-7201</i>	<i>ITX-71101</i>	<i>ZRTB-11812</i>	<i>MBC-11001</i>	<i>KBC12001</i>	<i>ZRTK-17611A</i>
Intel Skylake-U	Intel Skylake HQ	Intel Skylake/Kaby Lake	Intel Skylake/Kaby Lake	Intel Skylake/Kaby Lake	Intel Skylake/Kaby Lake
N/A	QM170	H110	Q170	B250	B250
Max 16G DDR4	Max 32G DDR4	Max 32G DDR4	Max 32G DDR4	Max 32G DDR4	Max 32G DDR4
2*M.2	3*M.2	1*M.2 1*Mini PCIe	1*M.2 2*Mini PCIe 2*SIM	2*M.2 1*Mini PCIe 1*SIM	1*M.2
2*SATA3.0	2*SATA3.0	1*SATA3.0	2*SATA3.0 1*mSATA	1*SATA3.0	1*SATA3.0 1*mSATA
2*HDMI 1*DP 1*eDP	2*HDMI 1*DP 1*eDP	2*HDMI 2*DP 1*LVDS	2*HDMI 4*DP 1*VGA 1*LVDS/eDP	2*HDMI 1*DP	1*HDMI
4*RJ45	2*RJ45	1*RJ45	3*RJ45	2*RJ45	1*RJ45
4*COM	1*COM	N/A	4*COM	2*COM	1*COM
mITX(190*170mm)	mITX(170*170mm)	mITX(190*170mm)	228*218mm	190*165mm	180*195mm

MXM Box Series



<i>MIN-M01 (EMA-8141)</i>	<i>MIN-EC09B (EMA-7103)</i>	<i>MIN-EC09C (EMA-7102)</i>	<i>MIN-EC09A (EZT-Q370B)</i>	<i>EAC-CC02-E00 (MBC-11001)</i>	<i>EAC-CC02-C00 (MBC-11001)</i>	<i>EAC-CC02-B00 (MBC-11001)</i>	<i>EAC-CC02-A00 (MBC-11001)</i>	<i>EAC-CC02-AC0(KC1117)</i>
Intel Alder Lake S Raptor Lake S Refresh	Intel Tiger Lake-H	Intel Coffee Lake-S	Intel Coffee Lake-S	Intel Skylake Kaby Lake	Intel Skylake Kaby Lake	Intel Skylake Kaby Lake	Intel Skylake Kaby Lake	Intel Skylake-S Kaby Lake-S
H610/Q670	QM580	QM370	QM370	Q170	Q170	Q170	Q170	H110
Max 64G DDR5	Max 64G DDR4	Max 64G DDR4	Max 64G DDR4	Max 32G DDR4	Max 32G DDR4	Max 32G DDR4	Max 32G DDR4	Max 32G DDR4
2*M.2	3*M.2	3*M.2	3*M.2	2*M.2	2*M.2	2*M.2	2*M.2	1*M.2
N/A	1*SIM	1*SIM	1*SIM	2*SIM	2*SIM	2*SIM	2*SIM	2*SIM
4*HDMI 2*DP	1*HDMI 1*DP	1*HDMI 1*DP	2*HDMI 1*DP	2*HDMI 4*DP	2*HDMI 4*DP	2*HDMI 4*DP	2*HDMI 4*DP	2*HDMI 4*DP
4*RJ45	2*RJ45	2*RJ45	2*RJ45	3*RJ45	7*RJ45(4*Poe)	4*RJ45	3*RJ45	3*RJ45
4*USB3.0 2*USB2.0	3*USB3.0 2*USB2.0 1*Type C	3*USB3.0 2*USB2.0 1*Type C	6*USB3.0 2*USB2.0	6*USB3.0	6*USB3.0 2*USB2.0	6*USB3.0 2*USB2.0	6*USB3.0	4*USB3.0
2*RS232/RS422 /RS485 2*RS232	N/A	N/A	2*RS232/RS485	N/A	2*RS232/RS422 /RS485 1*R232	N/A	1*R232	2*R232
304*233*115mm	282.8*210*76.8m m	282.8*210*76.8m m	282*208*79.5m m	335*224*98mm	335*224*98mm	335*224*98mm	340*230*85mm	335*222.5*98m m

MXM Box Series

COMING SOON



COMING SOON



COMING SOON



CDM-2U02(EMA-8141)	MIN-EC10(EMA-7103)	HLC-6009(EMA-7112)	HLC-6007(EMA-7103)	HLC-6008(EMA-7112)	HLC-6006(EMA-7103)
Intel Alder Lake Raptor Lake	Intel Tiger Lake-H	Intel Tiger Lake-H	Intel Tiger Lake-H	Intel Tiger Lake-H	Intel Tiger Lake-H
H610/Q670	QM580	QM580	QM580	QM580	QM580
Max 64G DDR5	Max 64G DDR4	Max 64G DDR4	Max 64G DDR4	Max 64G DDR4	Max 64G DDR4
2*M.2	3*M.2	3*M.2	3*M.2	3*M.2	3*M.2
N/A	1*SIM	1*SIM	1*SIM	1*SIM	1*SIM
4*HDMI 2*DP	1*HDMI 1*DP	2*HDMI 2*DP	2*HDMI 2*DP	2*HDMI 2*DP	1*HDMI 1*DP
4*RJ45	2*RJ45	2*RJ45	2*RJ45 1*千兆	2*RJ45	2*RJ45
4*USB3.0 2*USB2.0	3*USB3.0 2*USB2.0 1*Type C	4*USB3.2 4*USB2.0	3*USB3.2 2*USB2.0	4*USB3.2 4*USB2.0	4*USB3.2 4*USB2.0 1*Type C
2*RS232/RS422/RS485 2*RS232	N/A	2*RS232	N/A	N/A	N/A
TBD	285*225*98mm	220*200*94.5mm	220*200*94.5mm	220*200*94.5mm	220*200*94.5mm

MXM Box Series



<i>EAC-Z01-A(EMA-7102)</i>	<i>MIN-EC05B(EZT-Q370B)</i>	<i>MIN-EC05A(EZT-Q370B)</i>	<i>MIN-EC02(KBC12001)</i>
Intel Coffee Lake-H	Intel Coffee Lake-S	Intel Coffee Lake-S	Intel Skylake Kaby Lake
Q370	Q370	Q370	B250
Max 64G DDR4	Max 32G DDR4	Max 32G DDR4	Max 32G DDR4
3*M.2	3*M.2	3*M.2	2*M.2
1*SIM	1*SIM	1*SIM	1*SIM
Video Out 1*DP 1*HDMI Video In 1*SDI 1*DVI 1*S-Video	2*HDMI 1*DP	2*HDMI 1*DP	2*HDMI 1*DP
2*RJ45	2*RJ45	2*RJ45	2*RJ45
3*USB3.0 2*USB2.0 1*Type C	6*USB3.0 4*USB2.0	6*USB3.0 4*USB2.0	4*USB3.0 2*USB2.0
N/A	2*RS232/RS422/RS485 4*RS232	2*RS232/RS422/RS485	2*R232
365*245*77.5mm	242*206*76mm	235*206*52mm	190*210*69mm

PART.

5

PCIe Series

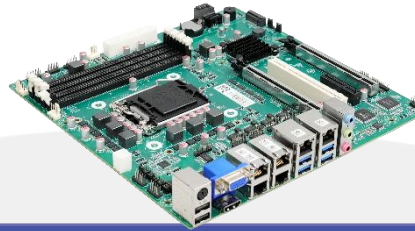
Specification-7"



EMA-7132	EMA-7133	EMA-7301
Intel Alder Lake-H/Raptor Lake-H	Intel 12th Alder Lake	Intel Skylake/Kaby Lake
SOC	SOC	PCH H110
Max 64G DDR5	Max 64G DDR4	Max 32G DDR4
2*SATA3.0	2*SATA3.0	2*SATA3.0
3*M.2	2*M.2	2*M.2 1*mSATA
1*PCIe 16x 1*PCIe 4x	N/A	1*PCIe 16X
2*DB9	2*DB9	3*DB9
4*RJ5	1*RJ45	6*RJ45
2*HDMI 1*DP	2*HDMI 1*VGA 1*LVDS 1*eDP	1*HDMI1.4a 1*VGA
4*USB3.1 2*USB2.0	2*USB3.1+4*USB2.0	4*USB3.0+4*USB2.0
mITX(170*170mm)	mITX(170*170mm)	mITX(170*170mm)

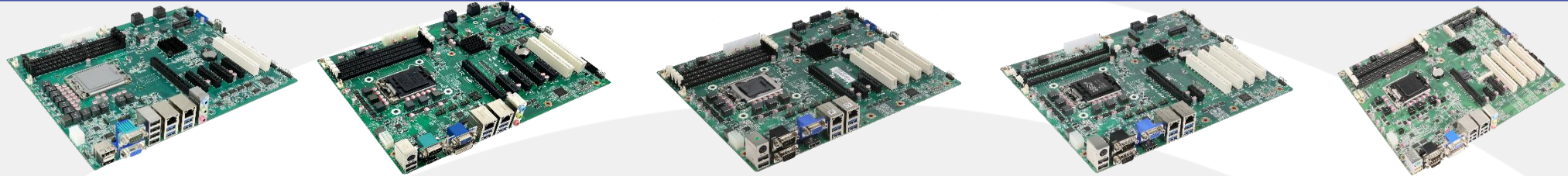
COMING SOON

NEW



EC9-Q170	EC9-Q170/H110	EMA-B65
Intel Raptor Lake/Alder Lake	Intel Coffee Lake/Kaby Lake/Skylake	Intel Sandy/Ivy
PCH Q670	PCH Q170/H110	PCH B65
128G DDR5	64G DDR4	16G DDR3
4*SATA3.0 2*M.2	3*SATA3.0 1*M.2	1*SATA3.0 3*SATA2.0 1*mSATA
2*PCIe 16x 1*PCIe 4x 1*PCI	1*PCIe 16x 1*PCIe 4x 1*PCI	1*PCIe 16x 1*PCIe 4x 2*PCI
2*RS232/RS485/RS422 4*RS232	2*RS232/RS485/RS422 4*RS232	2*RS232/RS485/RS422 4*RS232
4*RJ45 10/100/1000M	2/6*RJ45 10/100/1000M	2*RJ45 10/100/1000M
1*VGA 1*DP 1*HDMI	1*VGA 2*HDMI	1*VGA 1*DVI-D
4*USB3.2 5*USB2.0	4*USB3.0 4*USB2.0	9*USB2.0
mATX(243.8*243.8mm)	mATX(243.8*243.8mm)	mATX(243.8*243.8mm)

Specification-10"



<i>EMA-1304</i>	<i>EMA-1302</i>	<i>EMA-1301</i>	<i>EMA-1301H</i>	<i>ATX0-10701</i>
Intel 12/13 th Alder Lake/Raptor Lake	Intel 6/7 th Skylake/Kaby Lake	Intel 6/7 th Skylake/Kaby Lake	Intel 6/7 th Skylake/Kaby Lake	Intel Sandy/Ivy Bridge
Intel PCH Q670	Intel PCH Q170	Intel PCH Q170	Intel PCH H110	Intel PCH H61/B75
Max 128G DDR5	Max 128G DDR4	Max 128G DDR4	Max 64G DDR4	Max 32G DDR3
1*Mini PCIe 1*M.2 Key-M for SATA / PCIe	1*Mini PCIe for WiFi 3G/4G 1*M.2 SATA / SSD	1*Mini PCIe for NVME	1*Mini PCIe for NVME	1*Mini PCIe for WIFI/BT
4*SATA3.0(7 Pins)	4*SATA3.0(7 Pins)	4*SATA3.0(7 Pins) 1*mSATA	3*SATA3.0(7 Pins) 1*mSATA	1*SATA3.0 4*SATA2.0 1*mSATA
1*PCIe 16x 3*PCIe 4x Gen4 1 x PCIe 4x Gen3 2*PCI	2*PCIe 16x 2*PCIe 4x 1*PCIe 4x(by 1x) 2*PCI	1*PCIe 16x 1*PCIe 4x 1*PCIe 1x 4*PCI	1*PCIe 16x 1*PCIe 1x 4*PCI	1*PCIe 16x 1*PCIe 4x 1*PCIe 1x 4*PCI
1*RS232/RS485/RS422 5*RS232(4*2.54mm_2*5Pin)	1*RS232/RS485/RS422 5*RS232(4*2.54mm_2*5Pin)	2*RS232/RS485/RS422 4*RS232(4*2.54mm_2*5Pin)	2*RS232/RS485/RS422 4*RS232(4*2.54mm_2*5Pin)	2*RS232/RS485/RS422 4*RS232
1*VGA 1*DP 1*HDMI	1*VGA 1*DVI 1*HDMI	1*VGA 1*HDMI	1*VGA 1*HDMI	1*VGA 1*DVI-D
ATX(304.8*244*1.6mm)	ATX(304.8*244*1.6mm)	ATX(304.8*244*1.6mm)	ATX(304.8*244*1.6mm)	ATX(304.8*244*1.6mm)

Specification



CDM-4U04 (EC0-Q670)	CDM-4U03 (EC0-Q670)	CDM-4U02 (EMA-7132)	CDM-4U01 (EMA-7132)	CDM-2U01 (EMA-7132)	APC-B2002T (EMA-7301)
Intel Raptor Lake Alder Lake	Intel Raptor Lake Alder Lake	Intel Raptor Lake-H Alder Lake-H	Intel Raptor Lake-H Alder Lake-H	Intel Alder Lake-H Raptor Lake-H	Intel Skylake Kaby Lake
128G DDR5	128G DDR5	64G DDR5	64G DDR5	64G DDR5	32G DDR4
2*PCIe 16x 1*PCIe 8x 2*PCI	2*PCIe 16x 1*PCIe 8x 2*PCI	2*PCIe 16x	2*PCIe 16x	1*PCIe 16x 1*PCIe 4x	1*PCIe 16x
4*SATA 1*M.2 1*mPCIe	4*SATA 1*M.2 1*mPCIe	2*SATA3.0 3*M.2	2*SATA3.0 3*M.2	2*SATA3.0 3*M.2	2*SATA3.0 2*M.2 1*mSATA
1*VGA 1*DP	1*VGA 1*DP	1*HDMI 1*DP	1*HDMI 1*DP	1*HDMI 1*DP	1*HDMI1.4a 1*VGA
8*USB3.2 3*USB2.0	8*USB3.2 3*USB2.0	4*USB3.1 2*USB2.0	4*USB3.1 2*USB2.0	4*USB3.1 2*USB2.0	4*USB3.0 4*USB2.0
4/6*RJ45	4/6*RJ45	4*RJ45	4*RJ45	4*RJ45	6*RJ45
2*RS232/422/485 4*RS232	2*RS232/422/485 4*RS232	2*RS232(Option) 2*RS485(Option)	2*RS232(Option) 2*RS485(Option)	2*RS232(Option) 2*RS485(Option)	2*RS232/422/485
366*198*355mm	TBD	TBD	280*272*145mm	280*268*90mm	245*245*89mm



<i>IPC-883T-4U</i>		<i>APC-7190T</i>	<i>APC-7180T</i>
EMC Support	EMC Support	EMC Support	EMC Support
470*427*177.5mm	470*427*177.5mm	330*360.3*190mm	330*323*180mm
Gray	Black	White	Gray



THANKS

深圳智锐通科技有限公司

 深圳市宝安区碧桂园凤凰智谷A座21楼

 www.zrt-tech.com

 400-838-6869