

Freescale QorIQ P-Series Products 3U VPX and 3U cPCI

XPedite5470



XPedite5570



XPedite5430



XPedite5530



XPedite5531



General Information

Special Features	Conduction- or Air-Cooled 3U VPX	Conduction- or Air-Cooled 3U VPX	Conduction- or Air-Cooled 3U cPCI	Conduction- or Air-Cooled 3U cPCI	Conduction- or Air-Cooled 3U cPCI
Processor*	P4080 P3041 P4040 P5010 P5020	P2020 P1011 P1020 P2010	P4080 P3041 P4040 P5010 P5020	P2020 P1011 P1020 P2010	P2020 P1011 P1020 P2010
SDRAM	Up to 8GB DDR3-1333	Up to 8GB DDR3-800	Up to 8GB DDR3-1333	Up to 8GB DDR3-800	Up to 8GB DDR3-800
NOR Flash	Up to 512MB	Up to 512MB	Up to 512MB	Up to 512MB	Up to 512MB
NAND Flash	Up to 16GB	Up to 32GB	Up to 16GB	Up to 32GB	Up to 32GB
Mezzanine(s)	XMC/PMC	XMC/PMC	XMC/PMC	XMC/PMC	XMC/PMC
Mezzanine I/O to BP	X12d, subset of P64s	X12d, subset of P64s	-	-	-
Ethernet	2x SerDes or 2x 10/100/1000BASE-T	2x SerDes or 2x 10/100/1000BASE-T	2x 10/100/1000BASE-T	2x 10/100/1000BASE-T	1x 10/100/1000BASE-T
PCIe	2x x4 PCIe or 2x x4 sRIO 1x x4 PCIe	3x x4 PCIe	1x x4 PCIe	1x x2 PCIe	1x x2 PCIe
USB 2.0	2	1	2	1	1
SATA	2	-	2	-	-
Serial	2x RS-232/422/485	2x RS-232/422/485	2x RS-232/422/485	2x RS-232/422/485	2x RS-232/422/485
Software**	L, V, G, Q, X	L, V, G, Q, X	L, V, G, Q, X	L, V, G, Q, X	L, V, G, Q, X
Dimensions	100 mm x 160 mm 0.8" and 1.0" Pitch	100 mm x 160 mm 0.8" and 1.0" Pitch	100 mm x 160 mm	100 mm x 160 mm	100 mm x 160 mm
Status	Production	Production	Production	Production	Production

*Processor Information

Processor	P1011	P1020	P2010	P2020	P2040	P2041	P3041	P4040	P4080	P5010	P5020
Core Type	e500v2	e500v2	e500v2	e500v2	e500mc	e500mc	e500mc	e500mc	e500mc	e5500	e5500
Number of Cores	1	2	1	2	4	4	4	4	8	1	2
Max. Frequency	800MHz	800MHz	1.2GHz	1.2GHz	1.5GHz	1.5GHz	1.5GHz	1.5GHz	1.5GHz	2GHz	2GHz

**Software Information

L = Linux BSP
V = Wind River VxWorks BSP
G = Green Hills INTEGRITY-178 BSP
Q = QNX Neutrino BSP
X = LynuxWorks LynxOS BSP

Freescale QorIQ P-Series Products 6U VPX

XCalibur1641



XCalibur1642



XCalibur1740



General Information

Special Features	Air-Cooled 6U VPX	Conduction-Cooled 6U VPX	Conduction- or Air-Cooled 6U VPX
Processor*	P4080 P3041 P4040 P5010 P5020	P4080 P3041 P4040 P5010 P5020	P2020 P1011 P1020 P2010
SDRAM	Up to 16 GB DDR3-1333	Up to 16 GB DDR3-1333	Up to 8 GB DDR3-800
NOR Flash	Up to 512 MB	Up to 512 MB	Up to 512 MB
NAND Flash	Up to 32 GB	Up to 32 GB	Up to 32 GB
Mezzanine(s)	2x XMC/PMC	2x XMC/PMC	2x XMC/PMC
Mezzanine I/O to BP	P3w1P4-P64s+X12d+X8d to both sites	P3w1P4-P64s+X12d+X8d	P3w1P4-P64s+X12d+X8d
Ethernet	2x 1000BASE-TX 2x 1000BASE-BX XAUI	2x 1000BASE-TX 2x 1000BASE-BX XAUI	2x 1000BASE-T 2x 1000BASE-BX
PCIe	1x x4 PCIe 1x x8 PCIe	3x x4 PCIe 1x x8 PCIe	2x x4 PCIe 4x x4 PCIe or 2x x8 PCIe
USB 2.0	2	2	1
SATA	2	2	-
Serial	2x RS-232/422/485	2x RS-232/422/485	2x RS-232/422/485
Software**	L, V, G, Q, X	L, V, G, Q, X	L, V, G, Q, X
Dimensions	233 mm x 160 mm 0.8" and 1.0" Pitch	233 mm x 160 mm 0.8" and 1.0" Pitch	233 mm x 160 mm 0.8" and 1.0" Pitch
Status	Production	Production	Production

*Processor Information

Processor	P1011	P1020	P2010	P2020	P2040	P2041	P3041	P4040	P4080	P5010	P5020
Core Type	e500v2	e500v2	e500v2	e500v2	e500mc	e500mc	e500mc	e500mc	e500mc	e5500	e5500
Number of Cores	1	2	1	2	4	4	4	4	8	1	2
Max. Frequency	800MHz	800MHz	1.2GHz	1.2GHz	1.5GHz	1.5GHz	1.5GHz	1.5GHz	1.5GHz	2GHz	2GHz

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X = LynxWorks LynxOS BSP

Freescale QorIQ P-Series Products XMC/PMC

XPedite5400 **XPedite5401** **XPedite5500** **XPedite5501** **XPedite5502** **XPedite5504** **XPedite5600**



General Information

Special Features	Air-Cooled XMC/PMC	Conduction-Cooled XMC/PMC	Air-Cooled XMC/PMC	Conduction-Cooled XMC/PMC	Air-Cooled XMC/PMC	Air-Cooled XMC/PMC	Air-Cooled XMC/PMC
Processor*	P4080 P3041 P4040 P5010 P5020	P4080 P3041 P4040 P5010 P5020	P2020 P1011 P1020 P2010	P2020 P1011 P1020 P2010	P2020 P1011 P1020 P2010	P2020 P1011 P1020 P2010	P2041 P2040
SDRAM	Up to 8 GB DDR3-1333	Up to 8 GB DDR3-1333	Up to 8 GB DDR3-800	Up to 8 GB DDR3-800	Up to 8 GB DDR3-800	Up to 8 GB DDR3-800	Up to 8 GB DDR3-1333
NOR Flash	Up to 256 MB	Up to 256 MB	Up to 256 MB	Up to 512 MB	Up to 512 MB	Up to 256 MB	Up to 256 MB
NAND Flash	Up to 16 GB	Up to 16 GB	Up to 16 GB	Up to 16 GB	Up to 16 GB	Up to 16 GB	Up to 16 GB
Mezzanine(s)	-	-	-	-	-	-	-
Mezzanine I/O to BP	-	-	-	-	-	-	-
Ethernet	3x 10/100/1000BASE-T XAUI	2x 10/100/1000BASE-T XAUI	3x 10/100/1000BASE-T	2x 10/100/1000BASE-T	3x 10/100/1000BASE-T	2x 10/100/1000BASE-T	3x 10/100/1000BASE-T 1x 10/100/1000BASE-X XAUI
PCIe	1x x4 PCIe	1x x4 PCIe	1x x4 PCIe or Serial RapidIO	1x x4 PCIe or Serial RapidIO	1x x4 PCIe or Serial RapidIO	1x x4 PCIe	1x x4 PCIe
USB 2.0	2	2	1	1	1	-	2
SATA	2	2	-	-	-	-	2
Serial	2x RS-232/422/485	2x RS-232/422/485	2x RS-232/422/485	2x RS-232/422/485	2x RS-232/422/485	2x RS-232	2x RS-232/422/485
Software**	L, V, G, Q, X	L, V, G, Q, X	L, V, G, Q, X	L, V, G, Q, X	L, V, G, Q, X	L, V, G, Q, X	L, V, G, Q, X
Dimensions	149 mm x 74 mm	143.75 mm x 74 mm 10 mm Stacking Height	149 mm x 74 mm	143.75 mm x 74 mm 10 mm Stacking Height	149 mm x 74 mm 10 mm Stacking Height	149 mm x 74 mm 10 mm Stacking Height	149 mm x 74 mm 10 mm Stacking Height
Status	Production	Production	Production	Production	Production	Production	Production

*Processor Information

Processor	P1011	P1020	P2010	P2020	P2040	P2041	P3041	P4040	P4080	P5010	P5020
Core Type	e500v2	e500v2	e500v2	e500v2	e500mc	e500mc	e500mc	e500mc	e500mc	e5500	e5500
Number of Cores	1	2	1	2	4	4	4	4	8	1	2
Max. Frequency	800MHz	800MHz	1.2GHz	1.2GHz	1.5GHz	1.5GHz	1.5GHz	1.5GHz	1.5GHz	2GHz	2GHz

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Freescale QorIQ P-Series Products COM Express

XPedite5550



XPedite5551



XPedite5650



General Information

Special Features	Conduction- or Air- Cooled COM Express	Conduction- or Air- Cooled COM Express	Conduction- or Air- Cooled COM Express
Processor*	P2020 P2010	P1021 P1012	P2041
SDRAM	Up to 8GB DDR3-800	Up to 2GB DDR3-667	Up to 4GB DDR3-1333
NOR Flash	Up to 256 MB	Up to 256 MB	Up to 256 MB
NAND Flash	Up to 16 GB	Up to 32 GB	Up to 16 GB
Mezzanine(s)	-	-	-
Mezzanine I/O to BP	-	-	-
Ethernet	3x 10/100/1000BASE-T or 3x 1000BASE-X	3x 10/100/1000BASE-T	1x 10/100/1000BASE-T 1x 10/100/1000BASE-X
PCIe	1x x1 PCIe 1x x2 PCIe	2x x1 PCIe	2x x1 PCIe 1x x2 PCIe
USB 2.0	1	1	2
SATA	-	-	2
Serial	2	1	2
Software**	L,V,G,Q,X	L,V,G,Q,X	L,V,G,Q,X
Dimensions	95 mm x 95 mm	55 mm x 84 mm	55 mm x 84 mm
Status	Production	Production	Production

*Processor Information

Processor	P1011	P1020	P2010	P2020	P2040	P2041	P3041	P4040	P4080	P5010	P5020
Core Type	e500v2	e500v2	e500v2	e500v2	e500mc	e500mc	e500mc	e500mc	e500mc	e5500	e5500
Number of Cores	1	2	1	2	4	4	4	4	8	1	2
Max. Frequency	800 MHz	800 MHz	1.2 GHz	1.2 GHz	1.5 GHz	1.5 GHz	1.5 GHz	1.5 GHz	1.5 GHz	2 GHz	2 GHz

**Software Information

L = Linux BSP
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