

Intel® Xeon® D-1500 Family 3U VPX Products

XPedite7670



XPedite7672



XPedite7674



XPedite7676



XPedite7677



General Information

Special Features	Baseline Product	SecureCOTS™ with SmartFusion®2 FPGA	SecureCOTS™ with Kintex® Ultrascale™ FPGA	SecureCOTS™ with SmartFusion®2 FPGA and X24s+X8d+X12d	SecureCOTS™ with Kintex® Ultrascale™ FPGA
Processor	Intel® Xeon® D-1500 Family	Intel® Xeon® D-1500 Family	Intel® Xeon® D-1500 Family	Intel® Xeon® D-1500 Family	Intel® Xeon® D-1500 Family
SDRAM	16 GB DDR4-2133	16 GB DDR4-2133	16 GB DDR4-2133	16 GB DDR4-2133	16 GB DDR4-2133
NV Memory	32 GB NAND (SATA)	32 GB NAND (SATA)	32 GB NAND (SATA)	32 GB NAND (SATA)	32 GB NAND (SATA)
Mezzanine(s)	XMC	XMC	XMC	XMC	XMC
Mezzanine I/O to BP	P1w9-X12d XMC	P1w9-X12d XMC	P1w9-X12d XMC	P2w1-X24s+X8d+X12d XMC	P2w7-X8d+X12d
Ethernet	2x 10GBASE-KR to P1 2x 10/100/1000BASE-T to P2	2x 10GBASE-KR to P1 2x 10/100/1000BASE-T to P2	2x 10GBASE-KR to P1 1000BASE-BX/KX to P2	2x 10GBASE-KR to P1 10/100/1000BASE-T to P1	2x 10GBASE-KR to P1 2x 1000BASE-KX to P1 2x 10/100/1000BASE-T to P1/P2
PCIe	x8 Gen3 XMC 2x x4 Gen3 VPX	x8 Gen3 XMC 2x x4 Gen3 VPX	x8 Gen3 XMC 2x x4 Gen3 VPX	x8 Gen3 XMC 2x x4 Gen3 VPX	x8 Gen3 XMC
USB	2x USB 3.0	2x USB 2.0	2x USB 2.0	2x USB 2.0	2x USB 2.0
SATA 6 Gb/s	6	4	1	2	4
Serial	6x RS-232/422/485	4x RS-232/422/485	4x RS-232/422/485	2x RS-232/422/485	2x RS-232/422/485
IPMI	Yes	Custom	Yes	Custom	Custom
Software	XEL, V, C	XEL, V, C	XEL, V, C	XEL, V, C	XEL, V, C
2LM	Yes	Yes	Yes	Yes	Yes
Pitch	0.8" and 1.0"	0.8" and 1.0"	0.8" and 1.0"	0.8" and 1.0"	0.8" and 1.0"
Status	Production	Production	Production	Production	Production

Accessories

Recommended Rear Transition Module	XIt1086 XIt1076	XIt1086 XIt1076	XIt1088	XIt1083	XIt1090
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IPMI = Intelligent Platform Management Interface per VITA 46.11

XEL = X-ES Enterprise Linux BSP

V = Wind River VxWorks BSP

C = coreboot with Intel® FSP support

2LM = Two-Level Maintenance

Intel® Xeon® D-1500 Family 6U VPX Products

XCalibur4640



XCalibur4643



XCalibur4646



General Information

Special Features	Baseline Product	SecureCOTS™ with Kintex® UltraScale™ FPGA	SecureCOTS™ with SmartFusion®2 FPGA
Processor	Intel® Xeon® D-1500 Family	Intel® Xeon® D-1500 Family	Intel® Xeon® D-1500 Family
SDRAM	Up to 32 GB DDR4-2133	Up to 32 GB DDR4-2133	Up to 32 GB DDR4-2133
NV Memory	64 GB NAND (SATA)	64 GB NAND (SATA)	64 GB NAND (SATA)
Mezzanine(s)	2x XMC/PMC	2x XMC/PMC	2x XMC
Mezzanine I/O to BP	X38s+X12d+X8d or P64s+X12d+X8d	P3w1P4-P64s+X12d+X8d	X38s+X12d+X8d or P64s+X12d+X8d
Ethernet	2x 10/100/1000BASE-T to P4 1x 10/100/1000BASE-T to FP	4x 10GbE XAUI to P1 2x 1000BASE-BX to P4 2x 10/100/1000BASE-T to P4 1x 10/100/1000BASE-T to FP	2x 10GBASE-KR to P4 2x 10/100/1000BASE-T to P4 1x 10/100/1000BASE-T to FP
PCIe	4x x4 PCIe 2x x8 PCIe XMC 1x x16 PCIe VPX	3x x4 PCIe VPX	1x x8 or 2x x4 PCIe VPX 2x x8 PCIe XMC
USB	3	3	3
SATA 6 Gb/s	4	4	4
Serial	5x RS-232/422/485	5x RS-232/422/485 2x RS-232	4x RS-232/422/485
IPMI	Yes	Yes	Yes
Software	XEL, V, C	XEL, V, C	XEL, V, C
2LM	Yes	Yes	Yes
Pitch	0.8" and 1.0"	0.8" and 1.0"	0.8" and 1.0"
Status	Production	Production	Production

Accessories

Recommended Rear Transition Module	XIt1042	XIt1042 XIt1048	XIt1042 XIt1044
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IPMI = Intelligent Platform Management Interface per VITA 46.11
 XEL = X-ES Enterprise Linux BSP
 V = Wind River VxWorks BSP
 C = coreboot with Intel® FSP support
 2LM = Two-Level Maintenance