

# INDUSTRY STANDARDS AND SPECIFICATIONS



Standards/Platforms are in alphabetical order.

For more information on any of the below Industry Standards/Platforms, please contact: [standards@samtec.com](mailto:standards@samtec.com)

Standard	Bandwidth	Compliant to Ind. Std. Bandwidth	Certified to Ind. Std. Standard	Series Compliant to Ind. Std. Bandwidth	Part Numbers Certified to the Industry Standard
<a href="#">ARM HSSTP</a>	JTAG Trace, Run Control & Resource Management	Y	Y		ASP-130367-01 ASP-133811-01 ASP-130365-01
<a href="#">Cat3</a>	8 MHz / 16 Mbps	Y	N	<a href="#">MODS</a> <a href="#">MODM</a> <a href="#">MODS-LJ</a>	
<a href="#">Cat5</a>	50 MHz / 100 Mbps	N	N	<a href="#">MODS-LJ</a> <a href="#">VPSTP</a> <a href="#">VPLSP</a>	
<a href="#">Cat5e</a>	500 MHz / 1000 Mbps	N	N	<a href="#">MODS-LJ</a> <a href="#">VPSTP</a> <a href="#">VPLSP</a>	
<a href="#">Cat6</a>	400 MHz / 800 Mbps	N	N	<a href="#">VPSTP</a> <a href="#">VPLSP</a>	
<a href="#">Cat7</a>	700 MHz / 1.4 Gbps	N	N	<a href="#">VPSTP</a> <a href="#">VPLSP</a>	
<a href="#">COMIT</a>	Various channels and links. Contact: <a href="mailto:Standards@samtec.com">Standards@samtec.com</a>	Y	Y	<a href="#">SEAM / SEAF</a> <a href="#">DPAM / DPAF</a> <a href="#">TMM / SMM</a>	ASP-140868-01 ASP-140867-01 ASP-142677-02 ASP-140306-03 ASP-144136-01
<a href="#">EBX</a>	33 MHz / 66 Mbps (PC / 104-Plus™) 8 MHz / 16 Mbps (PC / 104™)	Y	Y	<a href="#">ESQT</a> <a href="#">PTHF</a> <a href="#">ESQ</a>	<a href="#">ESQT</a> -130-02-G-Q-368 <a href="#">ESQT</a> -130-03-G-Q-368 <a href="#">SO</a> -1524-03-01-02-L <a href="#">ATS</a> -30-Q <a href="#">PTHF</a> -130-02-G-Q-368 <a href="#">PTHF</a> -130-03-M-Q-368 <a href="#">SO</a> -1524-03-01-02-L <a href="#">ESQ</a> -132-14-G-D <a href="#">ESQ</a> -132-12-G-D <a href="#">ESQ</a> -120-14-G-D <a href="#">SO</a> -1524-03-01-02-L
<a href="#">EPIC</a>	33 MHz / 66 Mbps (PC / 104-Plus™) 8 MHz / 16 Mbps (PC / 104™)	Y	Y	<a href="#">ESQT</a> <a href="#">PTHF</a> <a href="#">ESQ</a>	<a href="#">ESQT</a> -130-02-G-Q-368 <a href="#">ESQT</a> -130-03-G-Q-368 <a href="#">SO</a> -1524-03-01-02-L <a href="#">ATS</a> -30-Q <a href="#">PTHF</a> -130-02-G-Q-368 <a href="#">PTHF</a> -130-03-M-Q-368 <a href="#">SO</a> -1524-03-01-02-L
<a href="#">EPIC Express</a>	1 bank = 1 GHz / 2 Gbps 3 bank = 3 GHz / 6 Gbps	Y	Y	<a href="#">QTE / QSE</a> <a href="#">BTE / BSE</a> <a href="#">HSEC8</a> <a href="#">ERM8 / ERF8</a> <a href="#">QRM8 / QRF8</a>	<a href="#">QTE</a> -014-10-L-D-DP-A <a href="#">QSE</a> -014-01-L-D-DP-A
<a href="#">Fibre Channel</a>	133 Mbps - 4.25 Gbps	Y	N	<a href="#">EQDP</a> <a href="#">EEDP</a> <a href="#">6QDPS</a> <a href="#">QMF / QFS</a> <a href="#">QMSS / QFSS</a>	
<a href="#">HDMI</a>	825 MHz / 1650 Mbps @ -8dB 2.47 GHz / 4.95 Gbps @ -21dB 4.12GHz / 8.25 Gbps @ -30 dB	Y	Y	<a href="#">HDMI</a> <a href="#">HPSTP</a> <a href="#">HPLSP</a>	<a href="#">HDMI</a> -19-01 / 02-S-SM <a href="#">HDMI</a> -19-01-F-SM <a href="#">HDMI</a> -19-01-F-SM-PF <a href="#">HDMI</a> -19-01-S-SM-PF <a href="#">HDMI</a> -19-02-F-SM <a href="#">HDMI</a> -19-02-F-SM-PF <a href="#">HDMI</a> -19-02-S-SM <a href="#">HDMI</a> -19-02-S-SM-PF <a href="#">HDMI</a> -19-01-S-SM <a href="#">HDMI</a> -19-01-X-TH-PF-L

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<a href="#">HSSTP (PowerPC, Rocket I / O)</a>	JTAG Trace, Run Control & Resource Management	Y	Y	<a href="#">QTE / QSE</a> <a href="#">EQCD</a>	<a href="#">EQCD-040-06.00-TTL-TBR-2-B</a> <a href="#">QSE-040-01-L-D-A-K</a>
<a href="#">Hypertransport</a>	800 MHz / 1600 Mbps	Y	N	<a href="#">QTH / QSH</a> <a href="#">BTH / BSH</a>	
<a href="#">IDE / ATA</a>	133 Mbps	Y	Y	<a href="#">SCID</a>	<a href="#">SEAM-40-05.0-SM-8-2-A-K</a> <a href="#">SEAF-40-02.0-SM-8-2-A-K</a>
<b>Infiniband</b>	500 Mbps to 6 Gbps per link. Most common speed is 2.5 Gbps.	Y	N	<a href="#">DPAM / DPAF</a> <a href="#">SEAM / SEAF</a>	
<b>IP67</b>	N / A (Environmental Standard)	N / A	Y	N / A	<a href="#">SCP1 / SCR1</a> <a href="#">SCP2 / SCR2</a> <a href="#">SCP3 / SCR3</a> <a href="#">SCPE / SCRE / SCRES</a> <a href="#">SCPU / SCRU</a> <a href="#">RCT / RPCT / RPBT</a>
<b>IP68</b>	N / A (Environmental Standard)	N / A	Y	N / A	<a href="#">SCP1 / SCR1</a> <a href="#">SCP2 / SCR2</a> <a href="#">SCP3 / SCR3</a> <a href="#">SCPE / SCRE / SCRES</a> <a href="#">SCPU / SCRU</a> <a href="#">RCT / RPCT / RPBT</a>
<a href="#">JTAG</a>	100 MHz / 200 Mbps	Y	Y	<a href="#">TLW, DW, EW, TMM,</a> <a href="#">CLT, ESQT, TST, ZSS,</a> <a href="#">EJH, IDSD, IDSS</a> (Several More)	<a href="#">FHSC, HHSC, THSC, TSW,</a> <a href="#">TSM, HMTSW, MTSW,</a> <a href="#">MTLW, TLW, TSSH, HTSS,</a> <a href="#">HTST, TST, ZSS, ZST,</a> <a href="#">EJH, IDSD, IDSS</a>
<a href="#">MINI BLADE</a>	SATA, USB3.0, SD, MMC	Y	Y	<a href="#">SBS</a>	<a href="#">SBS-120-01-S-DV-A-ML</a> <a href="#">SBS-120-01-S-DH-WT-ML</a>
<a href="#">NEXUS 5001™</a>	JTAG Trace, Run Control & Resource Management	Y	Y	<a href="#">ERM8 / ERF8</a> <a href="#">BTE / BSE</a> <a href="#">HSEC8</a> <a href="#">QRM8 / QRF8</a>	ASP-137969-01 ASP-137973-01 ASP-130368-01 ASP-135029-01
<a href="#">PC / 104™</a>	8 MHz / 16 Mbps	Y	Y	<a href="#">ESQ, ESQT, PTHF,</a> <a href="#">TLW, TST, ZSS,</a> <a href="#">EJH, IDSD, IDSS</a>	<a href="#">ESQ-132-14-G-D</a> <a href="#">ESQ-132-12-G-D</a> <a href="#">ESQ-120-14-G-D</a>
<a href="#">PC / 104-Plus™</a>	33 MHz / 66 Mbps	Y	Y	<a href="#">ESQT</a> <a href="#">PTHF</a> <a href="#">ESQ</a>	<a href="#">ESQT-130-02-G-Q-368</a> <a href="#">ESQT-130-03-G-Q-368</a> <a href="#">SO-1524-03-01-02-L</a> <a href="#">ATS-30-Q</a> <a href="#">PTHF-130-02-G-Q-368</a> <a href="#">PTHF-130-03-M-Q-368</a> <a href="#">SO-1524-03-01-02-L</a>
<a href="#">PCI / 104-Express™</a>	1.25 GHz / 2.5 Gbps	Y	Y	<a href="#">QMS / QFS</a> <a href="#">QRM8 / QRF8</a> <a href="#">ERM8 / ERF8</a> <a href="#">QTH / QSH</a> <a href="#">BTH / BSH</a>	ASP-142781-03 ASP-129637-03 ASP-129646-03 <a href="#">SO-1524-03-01-02-L</a> <a href="#">SO-2215-03-01-02-L</a>
<a href="#">PCI Express</a>	250 MHz / 500 Mbps - 4 GHz / 8 Gbps	Y	Y	<a href="#">QTE / QSE-DP</a> <a href="#">QTH / QSH-DP</a> <a href="#">RU8</a>	<a href="#">PCIE-XX-02-XX-XX,</a> <a href="#">DPAM / DPAF</a> <a href="#">PCIEC</a> <a href="#">PCRFR</a> <a href="#">QFS / QMS</a> <a href="#">SEAM / SEAF</a> (Many Solutions Exist)
<a href="#">PCIe / 104</a>	33 MHz / 66 Mbps	Y	Y	<a href="#">PTHF</a> <a href="#">ESQT</a>	<a href="#">PTHF-130-02-GF-Q-368</a> <a href="#">ESQT-130-02-GF-Q-368</a>

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<a href="#">PCMCIA</a>	160 Mbps	Y	N	<a href="#">PCMS / PCMT CFT / CFS</a>	<a href="#">PCMS / PCMT CFT / CFS</a>
<a href="#">PICO-I / O</a>	Up to 2.5 GHz / 5 Gbps	Y	Y	<a href="#">QMS / QFS QRM8 / QRF8 ERM8 / ERF8</a>	ASP-142781-01 ASP-129637-01 ASP-129646-01 <a href="#">SO-1524-03-01-02-L</a> <a href="#">SO-2215-03-01-02-L</a>
<a href="#">PICO-ITXe</a>	Up to 2.5 GHz / 5 Gbps	Y	Y	<a href="#">QMS / QFS QRM8 / QRF8 ERM8 / ERF8 QTH / QSH BTH / BSH</a>	ASP-142781-01 ASP-129637-01 ASP-129646-01 <a href="#">SO-1524-03-01-02-L</a> <a href="#">SO-2215-03-01-02-L</a>
<a href="#">PISMO 1</a>	2.15 GHz / 4.3 Gbps	Y	Y	<a href="#">QTH / QSH BTH / BSH QTS / QSS QTE / QSE</a>	<a href="#">QTH-060-01-F-D-A</a> <a href="#">QSH-060-01-F-D-A</a>
<a href="#">PISMO 2</a>	9.4 GHz / 18.8 Gbps	Y	Y	<a href="#">SEAM / SEAF ERM8 / ERF8 QRM8 / QRF8</a>	<a href="#">SEAM-40-05.0-SM-8-2-A-K</a> <a href="#">SEAF-40-02.0-SM-8-2-A-K</a>
<a href="#">SATA 1, 2, 3</a>	Serial ATA begin at 150 Mbps SATA 2 300 Mbps (750 MHZ - 3.0 GHz)	Y	N	<a href="#">RU8 DPAM / DPAF SEAM / SEAF</a>	
<a href="#">XFP, XENPAK</a>	2.5 GHz / 5 Gbps	Y	N	<a href="#">MECT SFPK</a>	
<a href="#">SFP, SFP+</a>	4.25 Gbps	Y	Y	<a href="#">MECT SFPK</a>	<a href="#">MECT-110-01-M-D-RA1-TR</a> <a href="#">SFPK-XX</a> <a href="#">SFPK-XX-TR</a>
<a href="#">Stackable USB</a>	Up to 240 MHz / 480Mbps	Y	Y	<a href="#">QMS / QFS QRM8 / QRF8 ERM8 / ERF8</a>	ASP-129637-01 ASP-129646-01 <a href="#">SO-1524-03-01-02-L</a>
<a href="#">SUMIT-ISM UEMF</a>	Up to 2.5 GHz / 5 Gbps	Y	Y	<a href="#">QMS / QFS QRM8 / QRF8 ERM8 / ERF8</a>	ASP-142781-01 ASP-129637-01 ASP-129646-01 <a href="#">SO-1524-03-01-02-L</a> <a href="#">SO-2215-03-01-02-L</a>
<a href="#">SUMIT™</a>	Up to 2.5 GHz / 5 Gbps	Y	Y	<a href="#">QMS / QFS QRM8 / QRF8 ERM8 / ERF8</a>	ASP-142781-01 ASP-129637-01 ASP-129646-01 <a href="#">SO-1524-03-01-02-L</a> <a href="#">SO-2215-03-01-02-L</a>
<a href="#">Synplicity HAPS</a>	300-500 MHz (800 Mbps)	Y	Y	<a href="#">QTH / QSH BTH / BSH</a>	ASP-132422-01 ASP-132424-01 ASP-125521-01 ASP-125516-03
<a href="#">USB 1.0-2.0</a>	USB 1.0 - 6 MHz / 12 Mbps USB 2.0 - 240 MHz / 480 Mbps	Y	Y	<a href="#">USB / USBR USBC MUSB SCPU / SCRUI</a>	<a href="#">USB / USBR USBC MUSB SCPU / SCRUI</a>
<a href="#">USB 3.0</a>	5 Gbps (625 Mbps)	Y	Y		Estimated Release 2010

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<a href="#">uTCA™</a>	AMC.1 PCI Express (ratified) AMC.2 Gigabit Ethernet and XAU1 (under review) AMC.3 Storage (ratified) AMC.4 Serial RapidIO (under development)	Y	Y	<a href="#">MTCA</a>	<a href="#">MTCA</a>
<a href="#">VITA 42: XMC (Rapid I / O)</a>	1.56 GHz / 3.125 Gbps	Y	Y	<a href="#">SEAM / SEAF</a>	ASP-105884-01 ASP-105885-01
<a href="#">VITA 57: FMC</a>	5 GHz / 10 Gbps	Y	Y	<a href="#">SEAM / SEAF</a> <a href="#">QTE / QSE</a> <a href="#">EMR8 / ERF8</a> <a href="#">QRM8 / QRF8</a>	ASP-134485-01 ASP-134486-01 ASP-127796-01 ASP-134603-01 ASP-134487-01 ASP-134488-01 ASP-127797-01 ASP-134606-01 ASP-134601-01 ASP-134604-01 ASP-134605-01 ASP-134602-01
<a href="#">XAU1</a>	1.56 GHz / 3.125 Gbps	Y	N	<a href="#">SEAM / SEAF</a> <a href="#">DPAM / DPAF</a> <a href="#">QTE / QSE-DP</a> <a href="#">QTH / QSH-DP</a> <a href="#">RU8</a>	
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