

Tokeneke Research Semiconductor Universe Changes

Date	Additions		Deletions		Revisions	
	Company	Ticker	Company	Ticker	From	To
9/22/25	Ambiq Micro	AMBQ	none		none	
6/10/25	Navitas Semiconductor	NVTS	Xperi (<i>spun out semi to ADEA</i>)	XPER	none	
	Valens Semiconductor	VLN				
3/20/25	Allegro Microsystems	ALGM	Infinera (<i>NOK</i>)	INFN	none	
	Indie Semiconductor	INDI	Western Digital (<i>spun out SNDK</i>)	WDC		
	Sandisk	SNDK				
6/12/24	Astera Labs	ALAB	none		none	
3/10/24	Mobileye Global	MBLY	none		none	
9/25/23	Arm Holdings plc	ARM	none		none	
6/1/23	Adeia	ADEA	none		none	
3/25/23	none		O2Micro (<i>private</i>)	OIIM	none	
8/30/22	none		NeoPhotonics (<i>LITE</i>)	NPTN	none	
4/1/22	SkyWater Technology	SKYT	Xilinx (<i>AMD</i>)	XLNX	none	
1/2/22	GlobalFoundries	GFS	DSP Group (<i>SYNA</i>)	DSPG	none	
	Synaptics	SYNA	MoSys/Monolithic System Memory (<i>PRSO</i>)	MOSY		
	Western Digital	WDC				
	Wolfspeed	WOLF				
9/22/21	none		Maxim Integrated Products (<i>ADI</i>)	MXIM	none	
6/29/21	none		Inphi (<i>MRVL</i>)	IPHI	none	
6/28/20	none		Acacia Communications (<i>CSCO</i>)	ACIA	none	
			Cypress Semiconductor (<i>Infineon</i>)	CY		
			Adesto Technologies (<i>Dialog</i>)	IOTS		
			Mellanox (<i>NVDA</i>)	MLNX		
			Semi Mfg Intl/SMIC (<i>Shanghai</i>)	SMICY		
3/16/20	SiTime	SITM	none		Semi Mfg Intl(SMIC)/SMI	SMICY
9/24/19	none		Aquantia (<i>MRVL</i>)	AQ	none	
			Quantenna Communications (<i>ON</i>)	QTNA		
6/12/19	none		Integrated Device Technology IDT (<i>Renesas</i>)	IDTI	none	
9/11/18	none		Cavium Networks (<i>MRVL</i>)	CAVM	none	
6/15/18	none		Microsemi (<i>MCHP</i>)	MSCC	none	
3/19/18	none		Ixys (<i>Littlefuse, LFUS</i>)	IXYS	none	
			Sigma Designs (<i>SLAB</i>)	SIGM		
12/15/17	Aquantia	AQ	none		none	
9/12/17	none		Mobileye (<i>INTC</i>)	MBLY	none	
6/18/17	none		Exar (<i>MXL</i>)	EXAR	none	
			GigPeak (<i>IDTI</i>)	GIG		
			InvenSense (<i>TDK in Japan</i>)	INVN		
3/15/17	Acacia Communications	ACIA	Actions Semiconductor (<i>private China</i>)	ACTS	Tessera/TSRA	Xperi/XPER
	Everspin Technologies	MRAM	Intersil (<i>Renesas</i>)	AMCC		
	Mobileye	MBLY	Linear Technology (<i>ADI</i>)	ISIL		
				LLTC		
12/11/16	Quantenna Communications	QTNA	none		none	
9/19/16	Impinj	PI	Fairchild Semiconductor (<i>ON</i>)	FCS	none	
			Qlogic (<i>CAVM</i>)	QLGC		
6/13/16	none		Atmel (<i>MCHP</i>)	ATML	Avago/AVGO	Broadcom/AVGO
			SanDisk (<i>WDC</i>)	SNDK	GigOptix/GIG	GigPeak/GIG
3/30/16	none		Altera (<i>INTC</i>)	ALTR	none	
			Anadigics (<i>private GaAs Labs?</i>)	ANAD		
			Broadcom (<i>AVGO</i>)	BRCM		
			EZChip (<i>MLNX</i>)	EZCH		
			OmniVision (<i>private China</i>)	OVTI		

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			PMC-Sierra (<i>MSCC</i>)	PMCS		
			Vimicro (<i>private China</i>)	VIMC		
			SunPower (just dropped from Universe)	SPWR		
12/15/15	Adesto Technologies	IOTS	Audience (<i>Knowles</i>)	ADNC	none	
			Entropic Communications (<i>MXL</i>)	ENTR		
			Freescale (<i>NXPI</i>)	FSL		
			Ikanos (<i>QCOM</i>)	IKAN		
			Integrated Silicon Solutions (<i>private</i>)	ISSI		
			Micrel (<i>MCHP</i>)	MCRL		
			Pericom Semiconductor (<i>DIOD</i>)	PSEM		
			Vitesse (<i>MSCC</i>)	VTSS		
4/11/15	none		Spansion (<i>CY</i>)	CODE	ONNN	ON
			International Rectifier (<i>Infineon</i>)	IRF		
			Silicon Image (<i>LSCC</i>)	SIMG		
1/1/15	Qorvo (<i>TQNT + RFMD</i>)	QRVO	Montage Technology (<i>private</i>)	MONT	none	
			RF Micro Devices (<i>Qorvo</i>)	RFMD		
			TriQuint Semiconductor (<i>Qorvo</i>)	TQNT		
12/15/14	none		Peregrine Semiconductor (<i>Murata</i>)	PSMI	none	
9/15/14	none		Hittite (<i>ADI</i>)	HITT	none	
			PLX Technology (<i>AVGO</i>)	PLXT		
6/22/14	none		none		none	
4/1/14	none		LSI Corp (<i>AVGO</i>)	LSI	none	
			RDA (<i>private with SPRD</i>)	RDA		
			Spreadtrum (<i>private with RDA</i>)	SPRD		
			Supertex (<i>MCHP</i>)	SUPX		
12/17/13	Montage Technology	MONT	TranSwitch	TXCC	none	
			Mindspeed (<i>MTSI, INTC</i>)	MSPD		
10/1/13	none		MEMSIC (<i>private</i>)	MEMS	LSI Logic	LSI Corp.
			sTec (<i>WDC</i>)	STEC		
			Volterra (<i>MXIM</i>)	VLTR		
6/21/13	none		ARM Holdings	ARMH	none	
3/17/13	Ambarella	AMBA	BCD Semiconductor (<i>DIOD</i>)	BCDS	ARM Holdings/ARMH	'provisional status'
			MIPS Technologies (<i>Imagination</i>)	MIPS		
12/12/12	none		AuthenTec (<i>AAPL</i>)	AUTH	none	
			Ramtron (<i>CY</i>)	RMTR		
9/27/12	Peregrine Semiconductor	PSMI	Standard Microsystems (<i>MCHP</i>)	SMSC	none	
6/20/12	ARM Audience RDA Microelectronics	ARMH ADNC RDA	none		GGOX Fixed NETL/NLST mix-up SPWRA	GIG NETL out, NLST back in SPWR
3/22/12	M/A-COM Technology	MTSI	Advanced Analogic Technologies (<i>SWKS</i>)	AATI	TRID	TRIDQ.pk
			NetLogic Microsystems (<i>BRCM</i>)	NETL		
			Trident Microsystems (<i>SIGM, ENTR, chp11</i>)	TRIDQ.pk		
12/21/11	InvenSense	INVN	none		none	
9/24/11	none		National Semiconductor (<i>TXN</i>)	NSM	none	
			SMART Modular (<i>private</i>)	SMOD		
			Zoran (<i>CSR</i>)	ZRAN		
6/29/11	Freescale Semiconductor MagnaChip Sequans Communications	FSL MX SQNS	Atheros (<i>QCOM</i>)	ATHR	none	
			Conexant (<i>private</i>)	CNXT		
3/14/11	BCD Semiconductor NeoPhotonics	BCDS NPTN	none		VTSS.pk	VTSS
12/9/10	Inphi Corporation Spansion	IPHI CODE	Actel (<i>MSCC</i>)	ACTL	none	
			Microtune (<i>ZRAN</i>)			
10/6/10	GigOptix NXP Semiconductors	GGOX NXPI	Adapteq (<i>sold ic's</i>)	ADPT	ADPT	ADPT.pk
			LOGIC Devices	LOGC		
			Metalink	MTLK		
			Virage Logic (<i>SNPS</i>)	VIRL		

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6/15/10	Alpha Omega Semiconductor	AOSL	Silicon Storage Technology (<i>MCHP</i>) Techwell (<i>ISIL</i>)	SSTI TWLL	none	
3/29/10	MaxLinear	MXL	California Micro Devices (<i>ONNN</i>) ZiLOG (<i>IXYS</i>)	CAMD ZILG	none	
1/4/10	none		ARM Holdings (<i>foreign</i>) Chartered Semiconductor (<i>GlobalFoundries</i>) Entorian (<i>no longer chips</i>) Intellon (<i>ATHR</i>) Leadis (<i>dissolve</i>)	ARMH CHRT ENTN ITLN LDIS	none	
9/2/09	Avago Technologies	AVGO	SiRF Technology Holdings (<i>CSR</i>)	SIRF	none	
6/11/09	none		Infineon Technologies (<i>NYSE de-listing</i>) PixelPlus Qimonda (<i>chapter 11</i>) Spansion (<i>chapter 11</i>)	IFX PXPLY.pk QNMDQ.pk SPSNq.pk	none	
4/6/09	none		Hifn (<i>EXAR</i>) MathStar NMGC Transmeta (<i>Novafora</i>) Zarlink (<i>ZL.to</i>)	HIFN MATH NMGC TMTA ZL	PXPL QI SPWR	PXPLY.pk QNMDQ.pk SPWRA
11/24/08	none		Catalyst Semiconductor (<i>ONNN</i>) Jazz Technologies (<i>TSEM</i>) Simtek (<i>CY</i>)	CATS JAZ SMTK	LanOptics EZCH MXIM.pk SimpleTech STEC	EZ Chip EZCH MXIM STEC with ticker STEC
9/16/08	none		ESS Technology	ESST	ARMHY	ARMH
6/6/08	none		AMI Semiconductor (<i>ONNN</i>) Saifun Semiconductors (<i>SPSN</i>) SigmaTel (<i>Freescale</i>)	AMIS SFUN SGTL	none	
3/6/08	none		Genesis Microchip (<i>STM</i>) Sirenza Microdevices (<i>RFMD</i>)	GNSS SMDI	Staktek STAK	Entorian ENTN
1/17/08	Entropic Communications Intellon InterDigital MEMSIC	ENTR ITLN IDCC MEMS	Alliance Semiconductor	ALSC.pk	LNOP	EZCH
12/6/07	LanOptics Jazz Technologies	LNOP JAZ	Macronix (<i>NASDAQ de-listing</i>) Sipex (<i>Exar</i>) Tvia	MXIC SIPX TVIA.pk	none	
8/15/07	AuthenTec Cavium Networks GSI Technology Infinera Mellanox Technologies Spreadtrum Communications	AUTH CAVM GSIT INFN MLNX SPRD	Agere Systems (<i>LSI</i>) Tripath Technology	AGR TRPH.ob	MXICY POWI.pk SIPX.pk TVIA	MXIC POWI SIPX TVIA.pk
2/8/07	Netlist	NLST	ATI Technologies (<i>AMD</i>) msystems (<i>SNDK</i>) Freescale Semiconductor (<i>private</i>) Micro Linear (<i>SMDI</i>) NVE Corporation PortalPlayer (<i>SGTL</i>)	ATYT FLSH FSL MLIN NVEC PLAY	SMTE.ob	SMTK
10/19/06	Qimonda AG SunPower Corp.	QI SPWR	none		SYXI SRAM.ob ALSC POWI	IXYS SMTE.ob ALSC.pk POWI.pk
7/1/06	Himax Technologies Hittite Microwave Corp. SMART Modular Technologies Techwell Vimicro International Corp.	HIMX HITT SMOD TWLL VIMC	Advanced Power Technology (APT) (<i>MSCC</i>) Lexar Media (<i>MU</i>)	APT LEXR	AGR-a M-Systems Flash Disk Pioneers SiRF Technology Holdings VTSS	AGR msystems SiRF Technology Holdings VTSS.pk