

CHIPMAKERS

Rank	Company •Address •Phone	Headquarters •Website •Email	OC employees •yearly % change	Companywide employees •yearly % change	Partial list of products offered	Notable customers	Top local official(s) •Title •Phone/fax
1 (1)	Broadcom Ltd. 5300 California Ave. Irvine 92617-3038	Singapore broadcom.com	1,630 ⁽¹⁾ NA	15,700 91%	Chips for automotive, appliances, bandwidth, backhaul, GPS, GPON, processors, powerline, set-top box, small cells, wearables, Wi-Fi	Amazon, Apple Inc., Cisco Systems Inc., Dell, DirecTV, Huawei, Samsung, ZTE Corp.	Hock E. Tan CEO/president (949) 926-5000/(949) 926-5203
2 (2)	TowerJazz 4321 Jamboree Road Newport Beach 92660-3007	Migdal Haemek, Israel towerjazz.com	792 1%	4,500 NA	Chips for wireless, optical networking, power management, image sensor, and other markets	Avago Technologies, Fairchild Semiconductor, International Rectifier, Panasonic, RF Micro Devices, Samsung, Skyworks Solutions, Texas Instruments, Vishay Siliconix	Russell Ellwanger/Marco Racanelli CEO/senior VP, general manager of RF/high performance analog and US aerospace & defense business groups, Newport Beach site manager (949) 435-8000/(949) 435-8757
3 (3)	Skyworks Solutions Inc. 5221 California Ave. Irvine 92617-3073	Woburn, Mass. skyworksinc.com sales@skyworksinc.com	354 7%	7,796 22%	Amplifiers, attenuators, circulators/isolators, DC/DC converters, demodulators, detectors, diodes, directional couplers, diversity receive modules, filters, front-end modules, hybrids, LED drivers, low noise amplifiers, mixers, modulators, optocouplers/optoisolators, phase locked loops, phase shifters, power dividers/combiners, receivers	Arris, Bose, Cisco, Dell, Ericsson, Foxconn, Fujitsu, General Electric, Google, Honeywell, HTC, Huawei, Landis+Gyr, Lenovo, LG, Microsoft, Nest, Netgear, Northrop Grumman, OPPO, Rockwell, Samsung, Sonos, VIVO, and ZTE	Liam Griffin CEO/president (949) 231-3000/(949) 231-3685
4 (4)	Microsemi Corp. 1 Enterprise Aliso Viejo 92656-2606	Aliso Viejo microsemi.com	231 -11%	4,328 -6%	Semiconductor and system solutions for aerospace and defense, communications, data center and industrial markets	Boeing Co., Huawei Technologies Co., Cisco Systems Inc., Raytheon, Medtronic Inc., HP Enterprise	James J. Peterson chairman/CEO (949) 380-6100
5 (7)	MaxLinear Inc. 50 Parker Irvine 92618-1604	Carlsbad maxlinear.com info@maxlinear.com	132 11%	553 9%	Provides radio frequency (RF) and mixed-signal integrated circuits for the connected home and wired and wireless infrastructure markets	Arris, Cisco Systems Inc., Hitron Technologies, Pace, Samsung Electro-Mechanics Co., Humax Co., MTI Jupiter Technology, WNC (Kunshan) Corp.	Kishore Seendripu/Adam Spice CEO/CFO
6 (5)	Toshiba America Electronic Components Inc. ⁽²⁾ 9740 Irvine Blvd., Ste. D700 Irvine 92618-1608	Tokyo toshiba.com/taec	128 ⁽¹⁾ NA	613 ⁽¹⁾ NA	Flash memory-based storage solutions, solid state drives (SSDs), hard disk drives (HDDs), solid state hybrid drives (SSHs), discrete devices, custom SoCs/ASICs, imaging products, microcontrollers, wireless components, mobile peripheral devices	would not disclose	Naohisa Sano CEO/president, Toshiba America Electronic Components Inc. (949) 462-7700/(949) 462-2200
7 (6)	Conexant Systems Inc. 1901 Main St., Ste. 300 Irvine 92614-0512	Irvine conexant.com americasupport@conexant.com	120 ⁽¹⁾ NA	319 ⁽¹⁾ NA	Silicon and software for audio and imaging solutions	Motorola, Canon, Brother, Lenovo, Pax, Landi, LG, Samsung, Verifone, Plantronics, Toshiba, Panasonic, Xinguodu, Sharp, Ricoh, Alps, Humax, Sony, Teco Imaging, Fuji	Jan Johannessen CEO (949) 483-4600/(949) 483-5010
8 (9)	Marvell Technology Group Ltd. 30 Enterprise, Ste. 200 Aliso Viejo 92656-7116	Santa Clara marvell.com info@marvell.com	112 -14%	4,547 -16%	Storage, networking, and connectivity semiconductor solutions	would not disclose	Matt Murphy CEO/president (949) 614-7700
9 (8)	MACOM Technology Solutions Holdings Inc. 4000 MacArthur Blvd., East Tower Newport Beach 92660-3095	Lowell, Mass. macom.com	94 3%	1,705 21%	RF power products, optoelectronics, photonic solutions, optical sub-assemblies, amplifiers, diodes, crosspoints and signal conditioners, SDI products, frequency conversion, control products, passives, HDcctv devices, frequency generation, communications processors, hi-rel components	would not disclose	John Ocampo/John Croteau chairman/CEO, president, director (949) 579-3000/(949) 579-3006
10 (11)	Inphi Corp. ⁽³⁾ 5151 California Ave., Ste. 200 Irvine 92617-3206	Santa Clara inphi.com	68 ⁽¹⁾ NA	500 194%	High-speed data movement interconnects	would not disclose	Nariman Yousefi senior VP, Coherent DSP, Inphi
11 (12)	Semicoa 333 McCormick Ave. Costa Mesa 92626-3422	Costa Mesa semicoa.com sales@semicoa.com	63 ⁽¹⁾ NA	63 ⁽¹⁾ NA	Military/aerospace discrete bipolar transistors, diodes, semiconductor special products and contract assembly	Boeing Co., Honeywell International Inc., L3 Communications Corp., Lockheed Martin, Northrop Grumman, Raytheon Co.	Allen Ronk/John Park CEO/president (714) 979-1900/(714) 557-4541
12 (13)	Intel Corp. 111 Theury Ave., Ste. 100 Irvine 92617-3045	Santa Clara intel.com	60 ⁽¹⁾ NA	106,000 -1%	Chips for computers, servers, networking, industrial uses	IBM Corp., HP, Dell	wnd (408) 765-8080
13 (14)	Microchip Technology Inc. ⁽⁴⁾ 1 Spectrum Pointe Drive, Ste. 225 Lake Forest 92630-8889	Chandler, Ariz. microchip.com	55 10%	13,000 0%	Connectivity and microcontroller (MCU) chips	would not disclose	Steve Caldwell VP/general manager, Wireless Group (949) 340-6150/(949) 707-4027
14 (14)	Solarflare Communications Inc. 7505 Irvine Center Drive, Ste. 100 Irvine 92618-2018	Irvine solarflare.com sales@solarflare.com	53 6%	203 9%	Low-latency 10/40GbE server networking solutions, networking I/O software and hardware platforms	Morgan Stanley, NASDAQ, JPMorganChase, Goldman Sachs, New York Stock Exchange, Chicago Board Options Exchange, Princeton Plasma Physics Laboratory, MeetMe, CloudFlare, Deutsche Börse, Raytheon, Citi, HP, Dell, Stratus Technologies	Russell Stern CEO (949) 581-6830/(949) 727-4283
15 (16)	Qualcomm Atheros Inc. 8 Hughes, second floor Irvine 92618-2072	San Diego qualcomm.com	30 ⁽¹⁾ NA	30,500 -8%	Network systems, bluetooth technology, global positioning systems chips	would not disclose	Steve Mollenkopf CEO, Qualcomm Inc. (949) 453-2727/(949) 341-0423
16 (17)	AAC Technologies Holdings Inc. 20 Fairbanks, Ste. 198 Irvine 92618-1624	Hong Kong aactechnologies.com	25 -14%	46,396 30%	Radio frequency chips, components for cellular applications including tunable antennas and filters	would not disclose	Shawn Cunningham general manager/VP, engineering, WiSpry Inc. (949) 458-9477/(949) 458-9485



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Abbreviations: NA: not applicable; wnd: would not disclose
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Communications Inc. in Dec. 2016

⁽⁴⁾ Previously listed as Microchip Corp.

⁽¹⁾ Business Journal estimate

⁽²⁾ Toshiba America Electronic Components employee figures just for division, not Toshiba Corp.

⁽³⁾ Previously listed as ClariPhy Communications Inc.; Santa Clara-based Inphi Corp. acquired Irvine-based ClariPhy

Researched by Dana Truong

Chipmakers' Employment Flat After Deep 2016 Cuts

Biggest Combine to Trim 15, Leaving 3,947 in OC

By CHRIS CASACCHIA

Orange County's biggest chipmakers in the 10 months through the end of April staved off deep job cuts that have defined the sector following Broadcom Corp.'s \$37 billion sale to Singapore-based Avago Technologies Inc. last February.

The 16 biggest here cut 15 local positions combined since late August, when the Business Journal published its last industry tally. The key business sector decreased employment to 3,947 workers, essentially flat.



Though it posted its second straight year of job losses, they were mild compared to the 16% drop last year—believed to be the biggest local decrease ever—that was fueled by big cuts at Broadcom's Irvine campus and a string of divestitures.

Six companies on this week's list added workers, and three were down. Seven companies' numbers were either Business Journal estimates or they didn't provide enough information for a year-over-year comparison.

The top four employers maintained their previous rankings.

■ Perennial No. 1, **Broadcom Ltd.**, had an estimated 1,630 employees at its University Research campus, down from an estimated 1,650. The company stopped providing employment figures to the Business Journal after its sale.

Broadcom's ongoing job cuts in Irvine have reached at least 771, according to filings with the California Employment Development Department. That's roughly a third of its local operation, which could experience further downsizing.

The Business Journal reports in this edition that Aliso Viejo-based **FivePoint Communities Inc.** said it's considering repurchasing Broadcom's campus that's under construction at Great Park Neighborhoods in Irvine (see story, page 1). As part of the transaction, it would lease back two of the buildings to Broadcom.

The chipmaker in March 2015 paid about \$156 million for the site, including the land, taxes and other fees, and originally planned to occupy at least four buildings.

■ No. 3, Woburn, Mass.-based **Skyworks Solutions Inc.**, added 24 employees, up 7.3% to 354.

The company is fresh off of a solid March quarter, when it posted sales of \$851.7 million and an adjusted profit of \$272 million, both beating Wall Street estimates.

Chief Executive **Liam Griffin**, who runs the company from Irvine, credited increasing demand for high-speed connectivity in the mobile and Internet of Things segments for exceeding the financial targets.

Its growing Irvine operation houses several senior executives, a design center, application engineering support, sales, marketing, operations, quality and supply chain personnel.

■ No. 4, Aliso Viejo-based **Microsemi Corp.**, cut 28 employees, down 10.8% to 231 locally.

The company has unloaded some local business units over the past few years that it acquired in its \$2.5 billion buy of PMC-Sierra Inc. in January 2016. It acquired the Sunnyvale-based chipmaker, which specializes in chips geared for server applications and the world's biggest big-data aggregators, after a two-month bidding war with Skyworks.

Microsemi in March closed a manufacturing plant in China that produced "lower value" devices not aligned with its strategic direction.



1 Enterprise: Aliso Viejo headquarters of Microsemi, which cut 28 local employees, or 11%

■ Santa Clara-based **Inphi Corp.** moved down one spot to No. 11 with an estimated 68 local workers. The company acquired ClariPhy Communications Inc. in Irvine in December for

\$275 million, plus debt. ClariPhy was founded in 2002 by **Nariman Yousefi**, who helped establish Broadcom Corp.'s networking group.

Chipmakers on the list added 15,365 compa-

nywide employees to 236,723 positions, the second straight sizeable annual gain due to global consolidation.

Broadcom alone added about 7,500 workers, the lion's share coming on after Avago acquired Broadcom Corp. and renamed the company.

The chipmaker acquired the photodetector business of Irvine-based chipmaker **Cosemi Technologies Inc.** in February on undisclosed financial terms.

Cosemi, as part of the deal, agreed to buy some of Broadcom's photodetector technology and other components, such as lasers.

Broadcom should gain a regulatory nod from Europe as early as this week on its \$5.5 billion buy of San Jose-based **Brocade Communications Inc.** as the transaction seeks approvals around the world. ■



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