

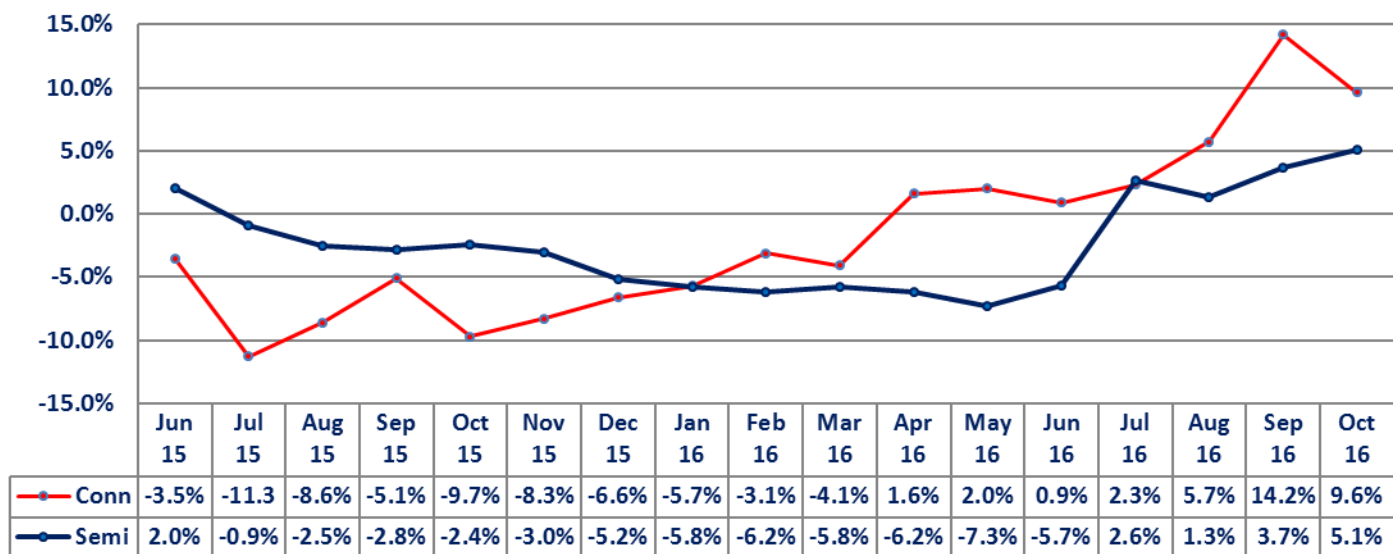
October Semi Sales Grow +5.1% YOY Largest Gain Since March 2015

The Semiconductor Industry Association (SIA) reported October sales of \$30.5 billion, up +5.1% from October 2015 and up +3.4% sequentially from September. Regionally for October, the SIA reported that China grew +14.0% YOY, Japan grew +7.2%, Asia Pacific/Other grew +1.9% and the Americas grew +0.1%. Europe had YOY declines in sales of -3.0%.

The connector industry sales, measured in U.S. dollars, increased +9.6% to prior year in October and contracted -13.2% sequentially. Regionally for October, YOY sales increased +5.9% in North America, +2.8% in Europe, +33.6% in China, +0.5% for Asia Pacific and +12.3% in ROW. Japan sales declined -1.6% YOY in October.

The following graph compares semiconductor sales performance to the connector industry.

Monthly Sales Performance
Year-Over-Year



- Connectors outperformed semis for the third straight month.
- The total growth numbers have been more closely tracking each other since June 2016.

The following table displays year-to-date performance, measured in U.S. dollars, by geographic region for both components.

**Sales Performance
October Year-To-Date**

	Semiconductors	Connectors
North America	-10.6%	2.6%
Europe	-6.3%	5.2%
Japan	0.8%	-11.4%
China	NA	10.1%
Asia Pacific*	-0.2%	-4.2%
World	-2.9%	2.8%

* Including China for SIA, Source SIA & Bishop

The differences in the regional YTD numbers still do not make sense, historically speaking. The world YTD total of -2.9% for semis and +2.8% for connectors is more the normal delta between the two components. Both components are showing YTD improvements in their sales performance.

Connectors are trending toward better performance since November 2015 and they are in positive YTD growth mode since August. Semis have trended up for the last four months. Their YTD performance may turn positive by the end of 2016 if this trend continues.