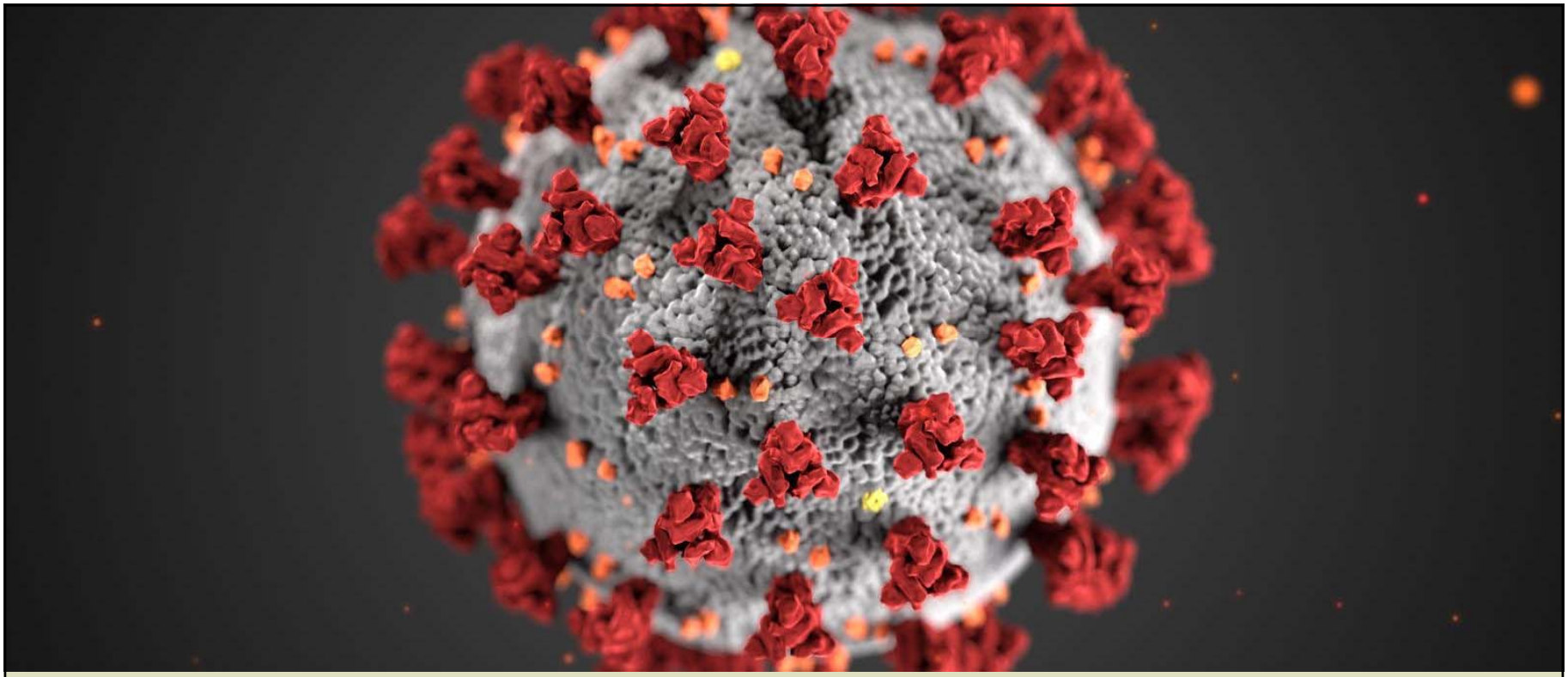
Marketplace Report

Ira Feldman
Feldman Engineering Corp.

TestConX™
Virtual Event • May 11-13, 2020

FELDMAN ENGINEERING



fda.gov

SARS-CoV2

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2020

The New York Times

White-Collar Companies Race to Be Last to Return to the Office

Google, Facebook, Amazon, Capital One and others are extending work-from-home policies to September and sometimes far beyond.

THE WALL STREET JOURNAL.

CIO JOURNAL

Employers Face Shortages of Tech Gear as Coronavirus Forces Shipment Delays

The technology that has enabled the sudden shift to remote work is in short supply

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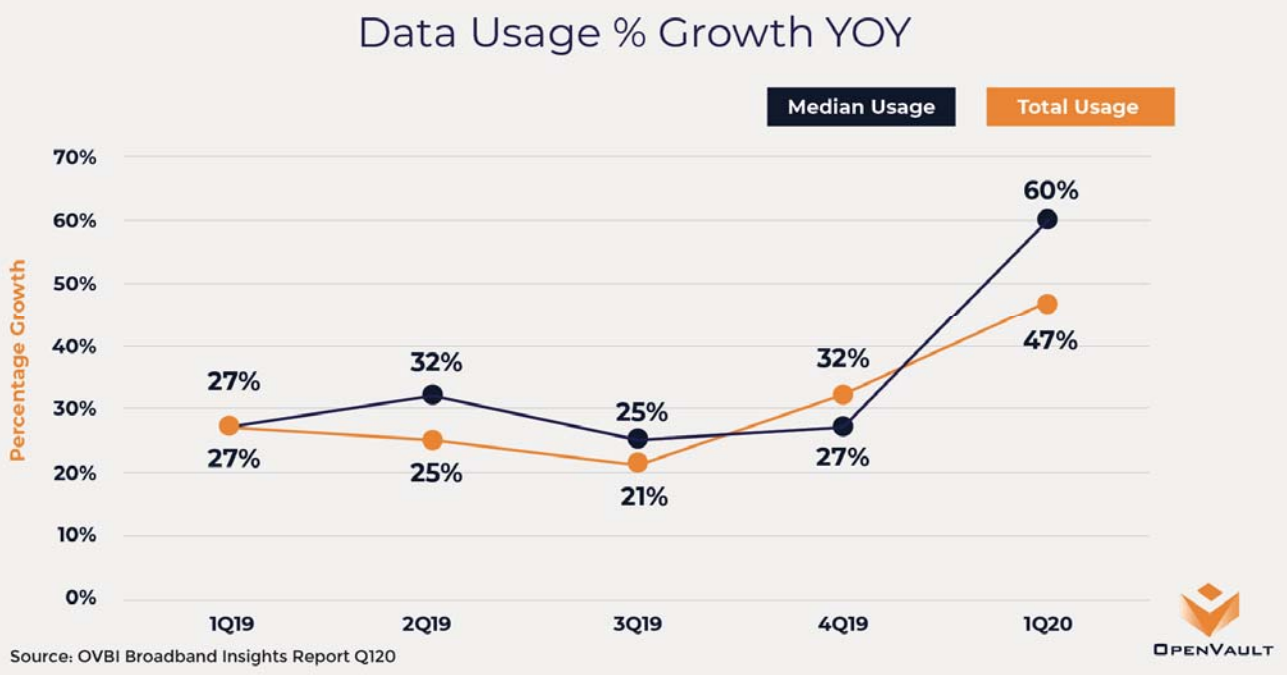
OpenVault Broadband Insights Report (OVBI)

"COVID-19 IMPACT: Broadband usage surges 47% IN Q1, nearing YE2020 expectations, with exponential rise in >1TB/2TB power users"



Source: OVBI Broadband Insights Report Q120

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Forbes

Coronavirus Won't Kill Leisure Or Business Travel, But It Will Change Them Significantly, Perhaps Forever

Dan Reed Senior Contributor

Aerospace & Defense

I write about airlines, the travel biz, and related industries

THE POINTS GUY

The Critical Points: What does the future of business travel look like?

Richard Kerr

Apr 3, 2020

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COVID-19 Implications

Area	Short/Mid Term	Longer Term
Work from Home & Distance Learning	Continued as long as required / practical	Hybrid model – in office / on campus part time
Offices	If reopened – short term modifications for isolation	End of open offices? Hoteling/hot desks? Smaller office campuses
Meetings	Very selective as to size, duration, and necessity of in person Otherwise via web/conference call	
Business Travel	None except extremely critical ("line down")	Heightened scrutiny (Is it essential? No other way?) with reduced budgets
Test Floors	Restricted to absolute essential employees Greater emphasis on remote test development & debug	Increased automation

➔Greater demand for computers, mobile devices, bandwidth

→ Growth for (select) semiconductors

→ Accelerated 5G rollout

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Future Food Automation?

CafeX

Bloomberg.com

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SOCKET MARKET

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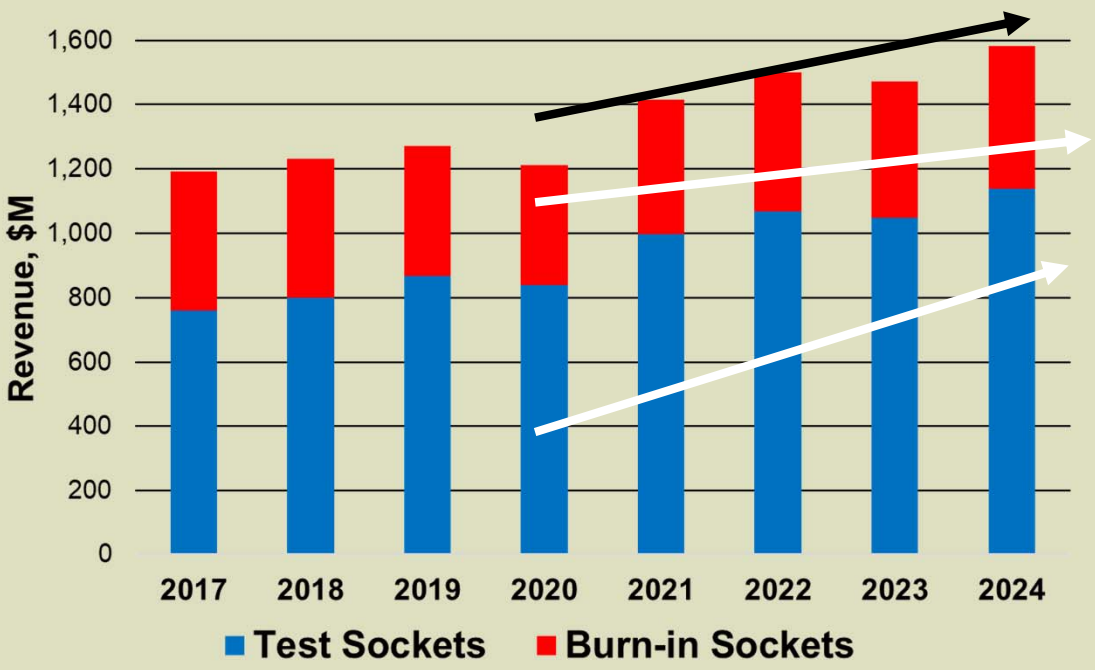
Test and Burn-In Socket Market



6.3% CAGR

4.1% CAGR

7.2% CAGR

VLSI Research 2019

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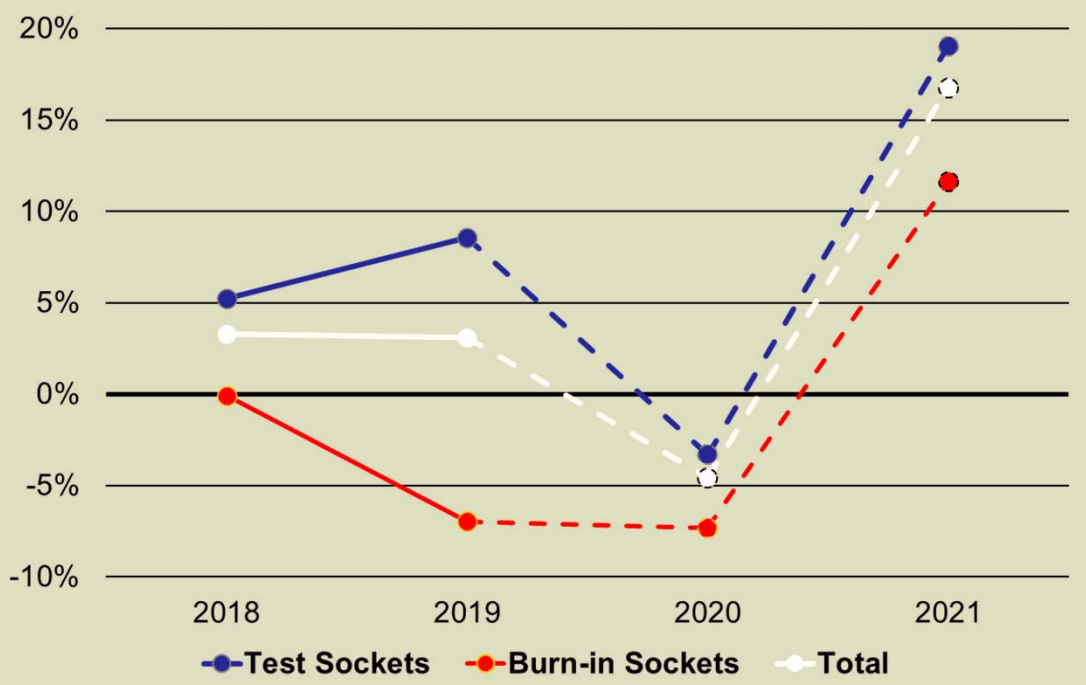
Short Term Year Over Year (YOY) Change



VLSI Research 2019

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Top Test & Burn-in Vendors 2019

Rank	2018 Overall
1	Yamaichi Electronics
2	Enplas
3	ISC
4	Smiths Interconnect
5	LEENO Industrial

Rank	2019 Overall
1	Enplas
2	Cohu
3	Yamaichi Electronics
4	Yokowo
5	WinWay

VLSI Research 2018 & 2019

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Top Test & Burn-in Vendors 2019

Rank	Overall	Test Socket	Burn-in Socket
1	Enplas	Cohu	Enplas
2	Cohu	Yokowo	Sensata Technologies
3	Yamaichi Electronics	WinWay	Yamaichi Electronics
4	Yokowo	LEENO Industrial	Micro Contact Solution
5	WinWay	ISC	Loranger

VLSI Research 2019

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- Socket Market Data courtesy of VLSI Report
  - Thank you Lin Fu & John West

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2020

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