

A glowing blue microchip is centered on a circuit board. The chip has a grid of small squares on its surface and is surrounded by intricate circuitry. The entire scene is bathed in a blue light, giving it a futuristic and technological appearance.

TPC Semiconductor Market Survey

March 17, 2021

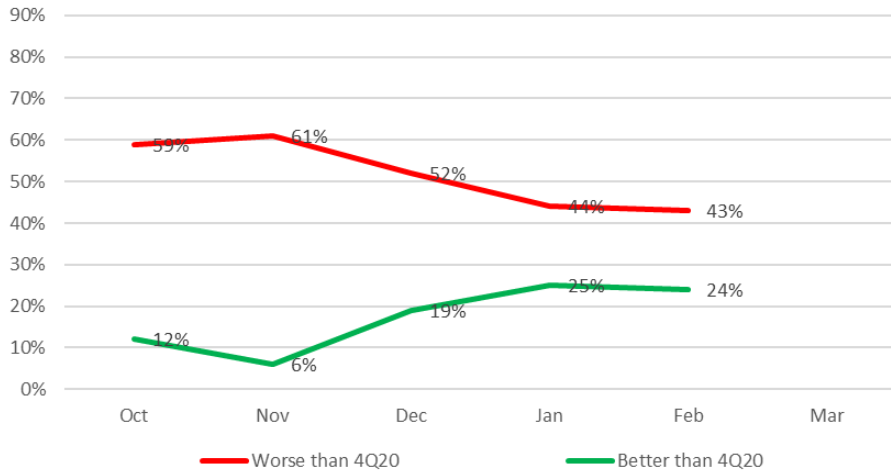
TPC March 2021 Survey Summary

*Survey Date: 3/7-9 Respondents: ~8,600 Location: Worldwide (~80% Asia) Who: Active Electronics Industry Professionals
Response Composition (multiple choices): Industrial 39%, Auto 20%, Comm 20%, Computing 19%, Mobile 29%, Data Ctr 20%, Other 12%*

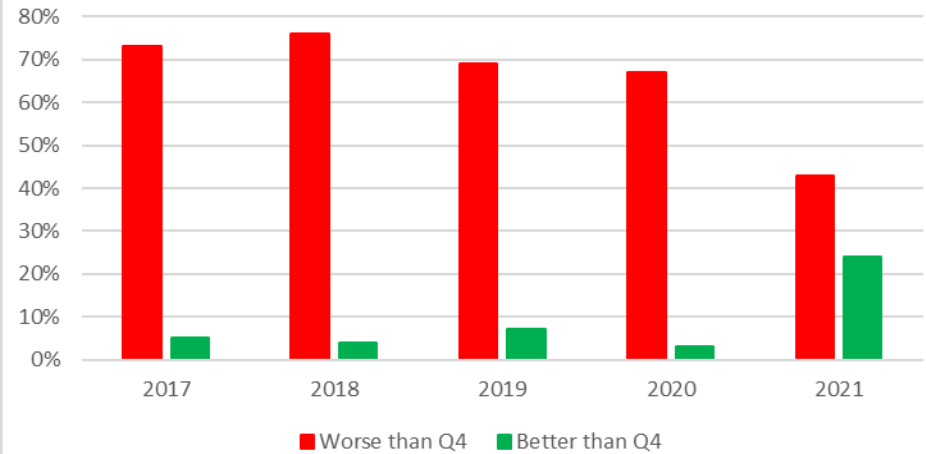
- We recently completed our monthly survey (~8,600 respondents) which continued to see improvements in both C1Q21 and C2Q21 growth expectations. Seasonality also continues to be much better than in the previous 4 years. The bookings outlook for both C1Q and C2Q also improved.
- End customers have become more comfortable with higher inventory levels (as well as wanting additional inventory in some products) due to product availability getting tighter. This is being driven by demand (especially in the Auto and Mobile sectors) being strong and will the thought it will likely remain strong throughout the year and into at least early CY21.
- The survey showed a growth outlook for C1Q21 remain roughly the same vs. last month with 24% expecting q/q growth vs. 25% previously and only 43% see it as weaker vs. 44% last month. The C2Q outlook improved with 57% expecting q/q growth vs. 54% previously; while only 14% see it as weaker vs. 21% last month.
- The survey showed improvement in bookings for C1Q21 with 30% expecting improving bookings vs. C4Q compared to 21% last month; while 9% now expect weaker bookings vs. 11% last month. Bookings outlook for C2Q21 improved significantly with 44% expecting improving bookings vs. C1Q compared to 25% last month
- Backlog cancellation expectations (slide 7) continues to show decreasing cancellations over the past 3 months.
- Availability of critical parts continues to trend towards less availability especially in Micro Controllers and Capacitors.
- Pricing has been on a 3+ month trend of increasing due to tighter product availability, with C2Q responses indicating continued increases in pricing.

Q/Q Demand Growth Outlook

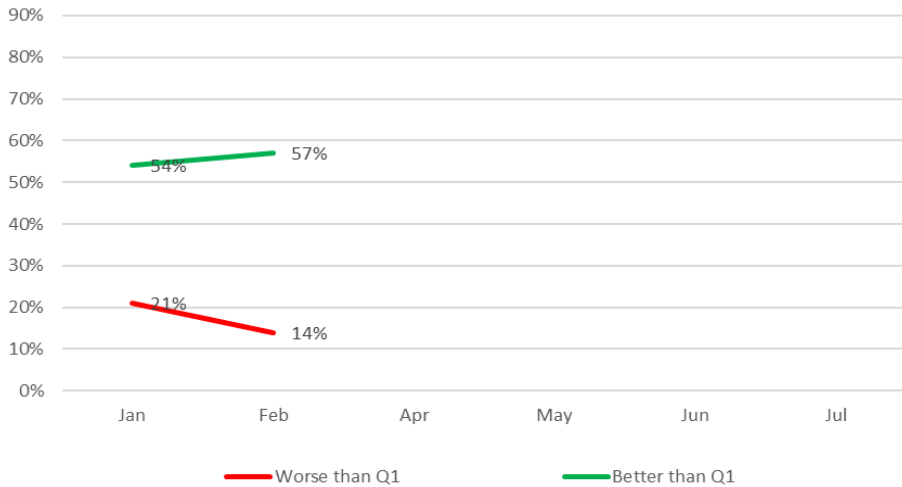
C1Q Growth Expectations



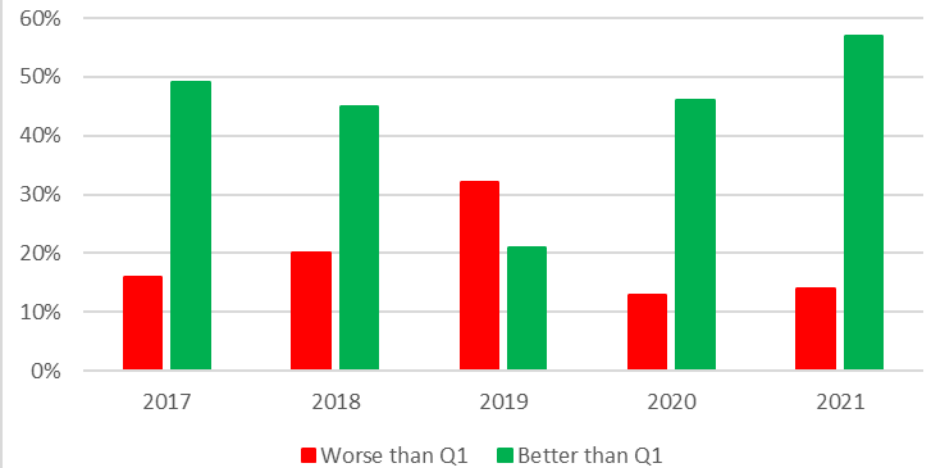
C1Q Growth Expectations vs. C4Q



C2Q Growth Expectations

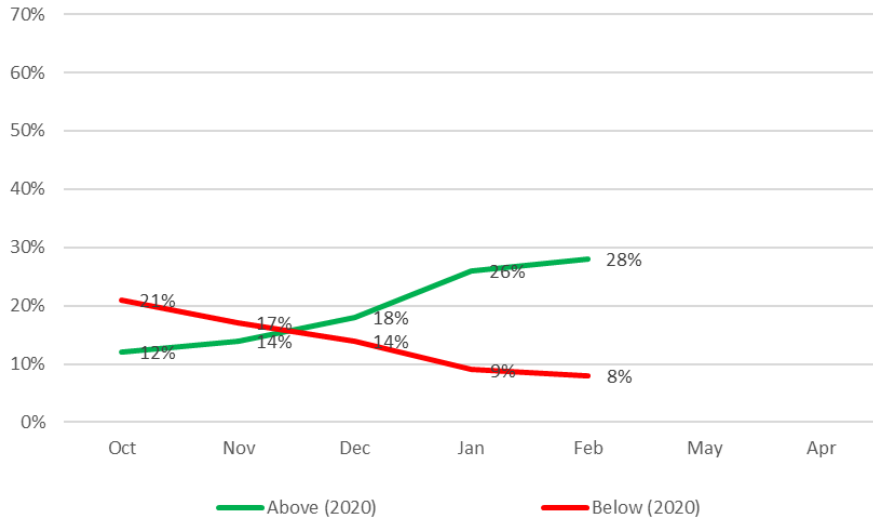


C2Q Growth Expectations vs. C1Q

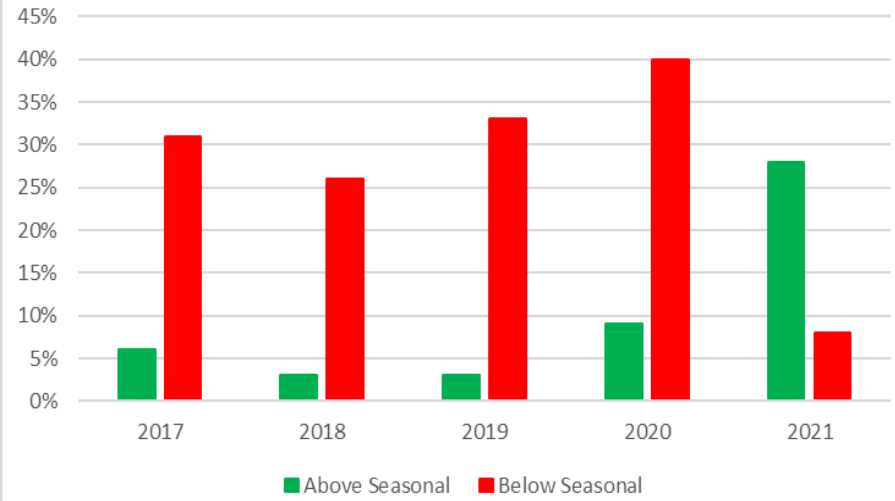


Q/Q Seasonality Expectations

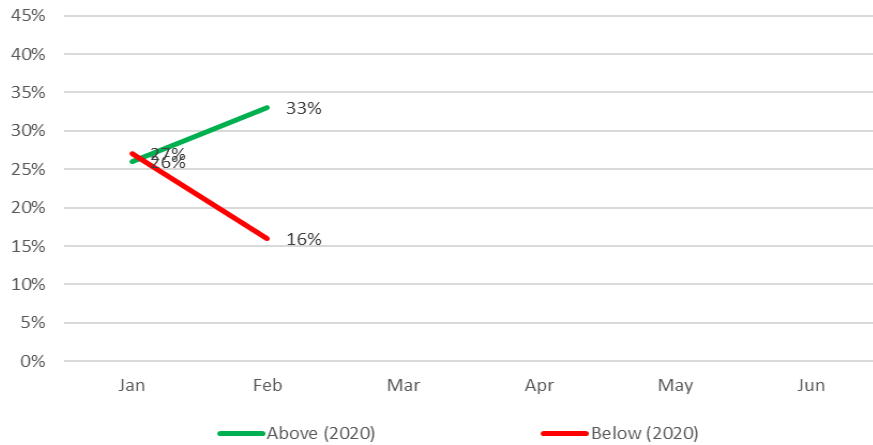
C1Q Seasonality Expectations



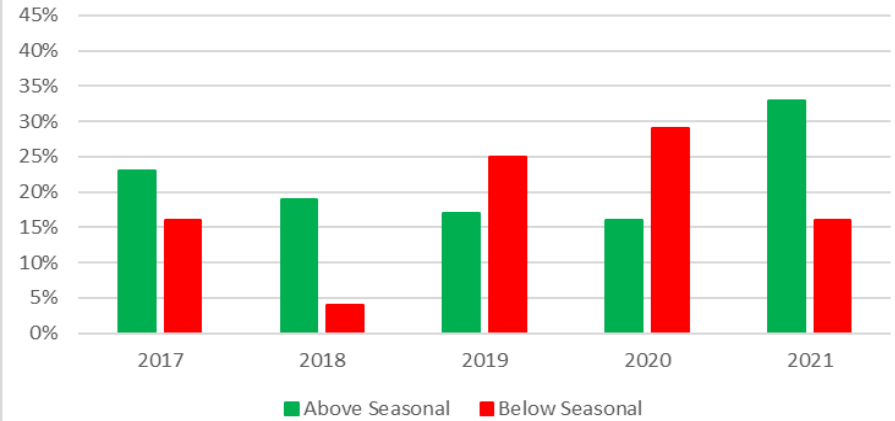
C1Q Seasonality Expectations



C2Q Seasonality Expectations

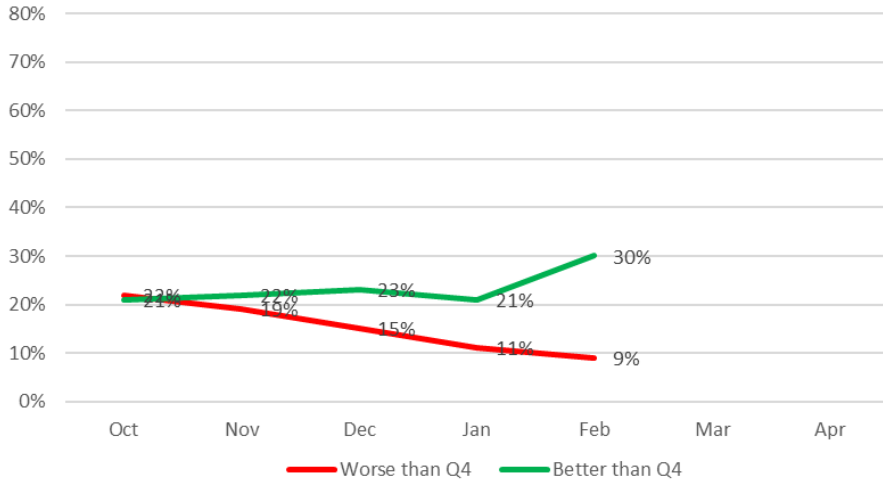


C2Q Seasonality Expectations

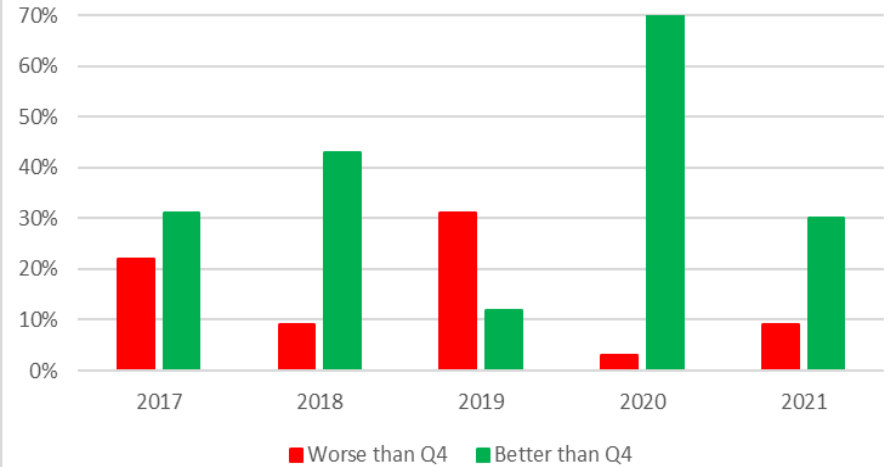


Q/Q Bookings Growth Expectations

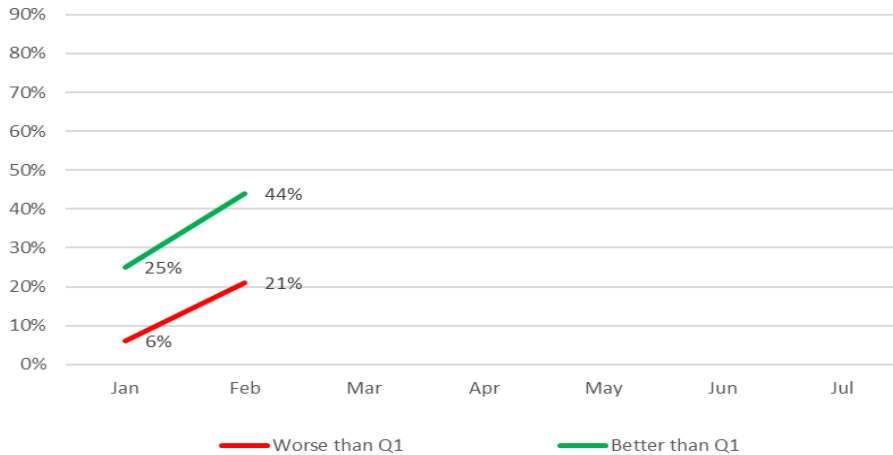
C1Q Bookings Expectations



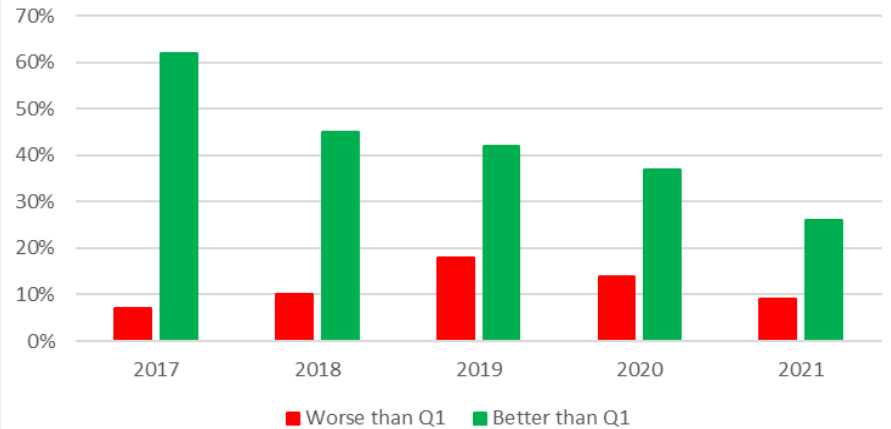
C1Q Bookings Expectations



C2Q Bookings Expectations

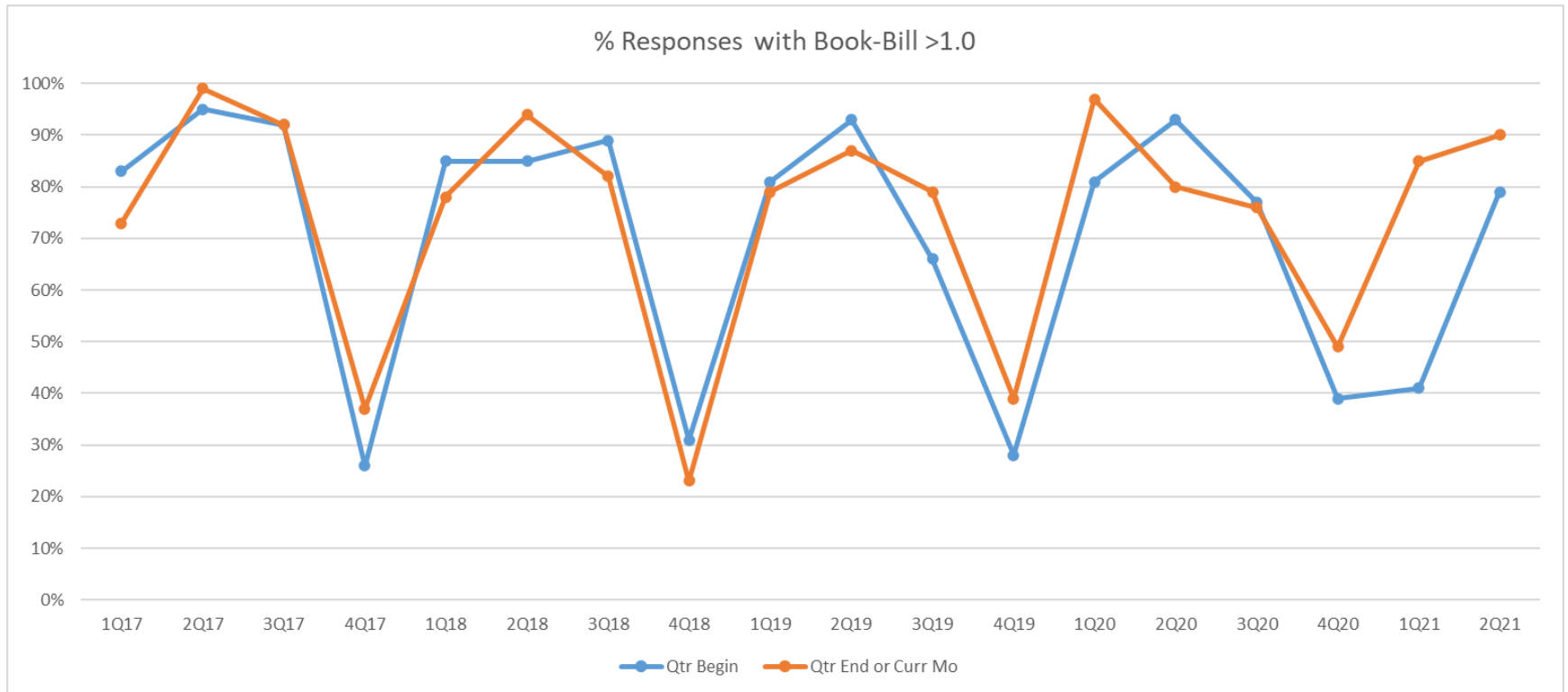


C2Q Bookings Expectations



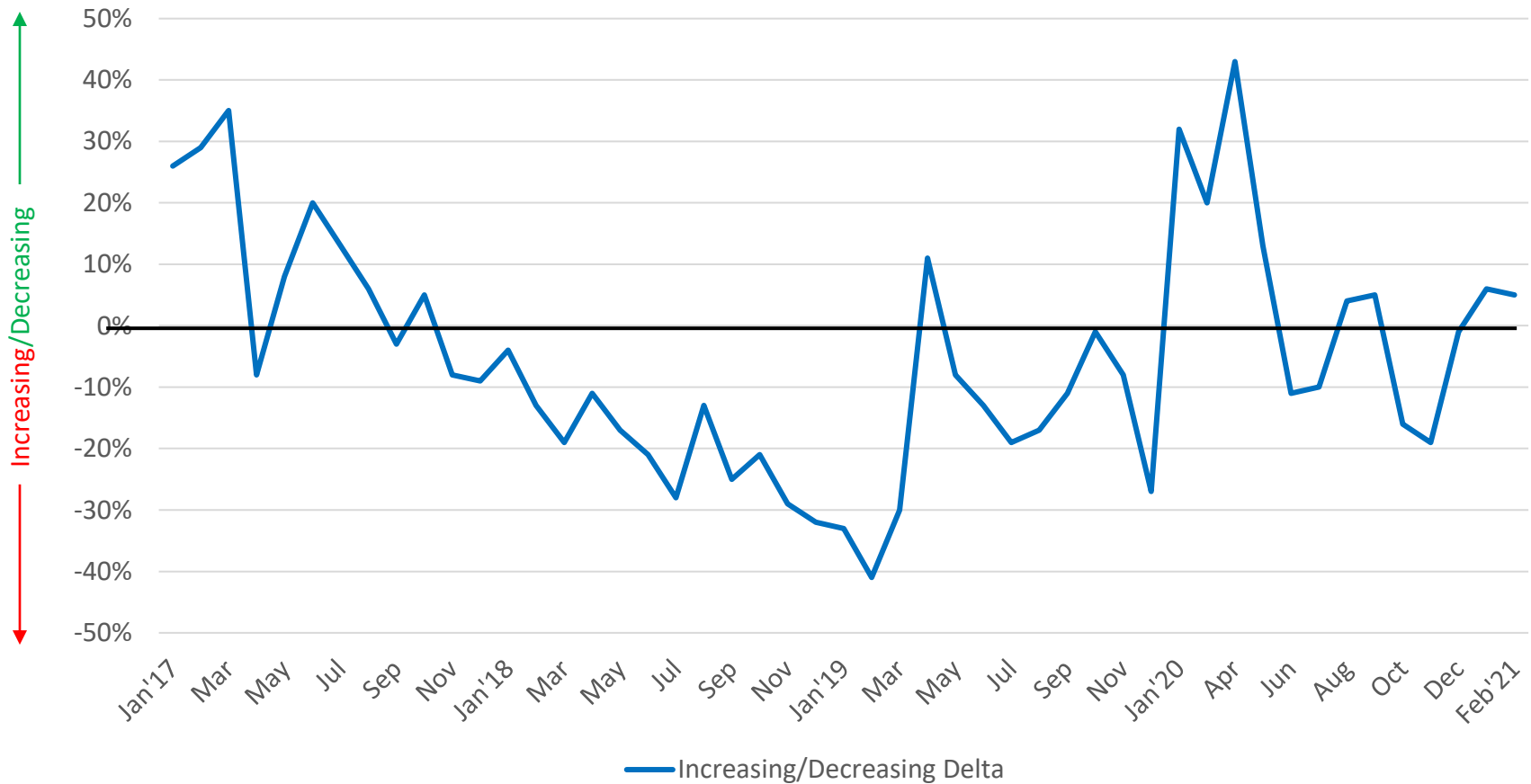
Book to Bill History & Trends

(Calendar quarters)



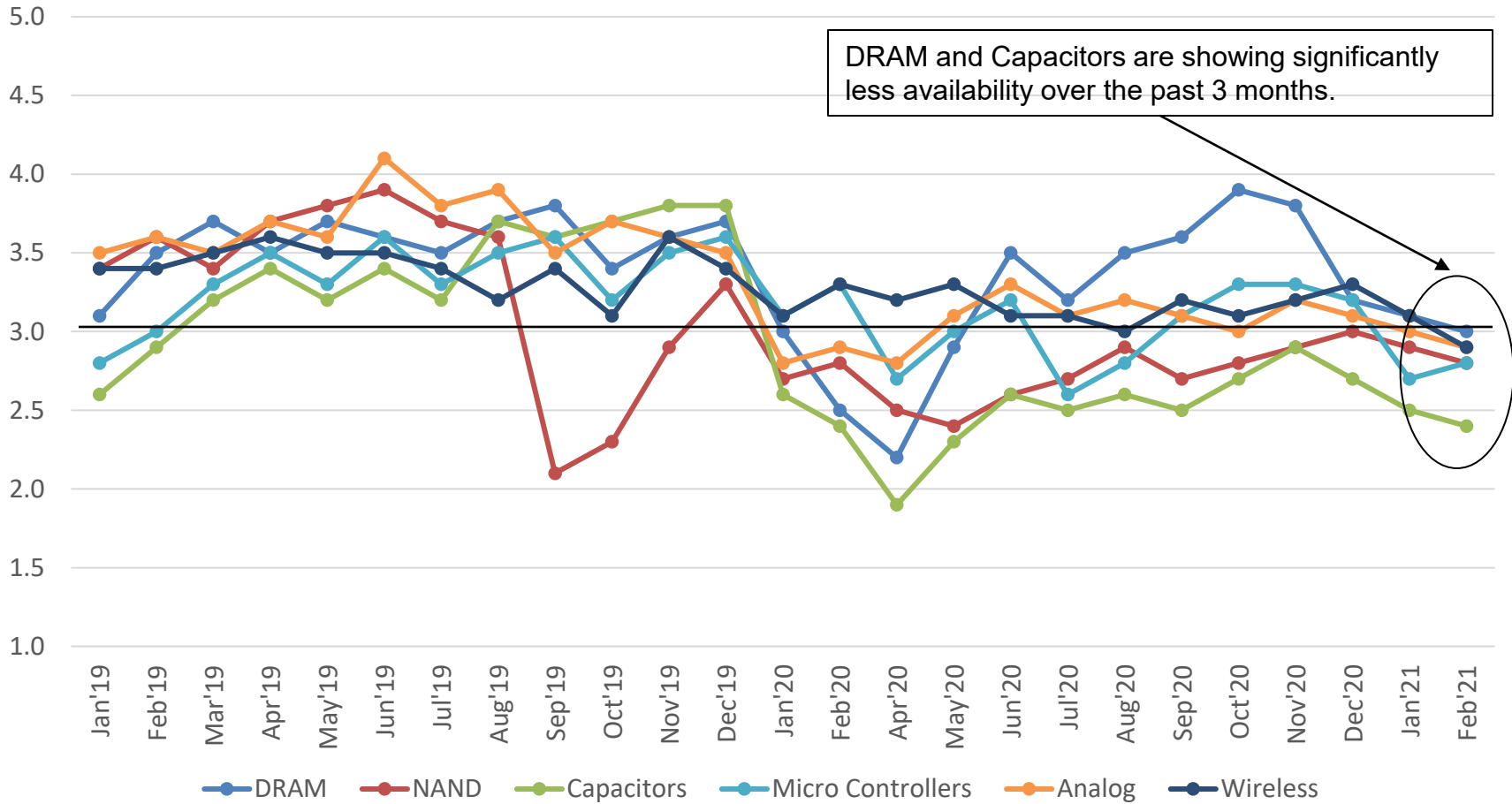
Backlog Order Cancellations vs. 30 Days Ago

(Delta between increasing and decreasing cancellations – Higher % is more positive)



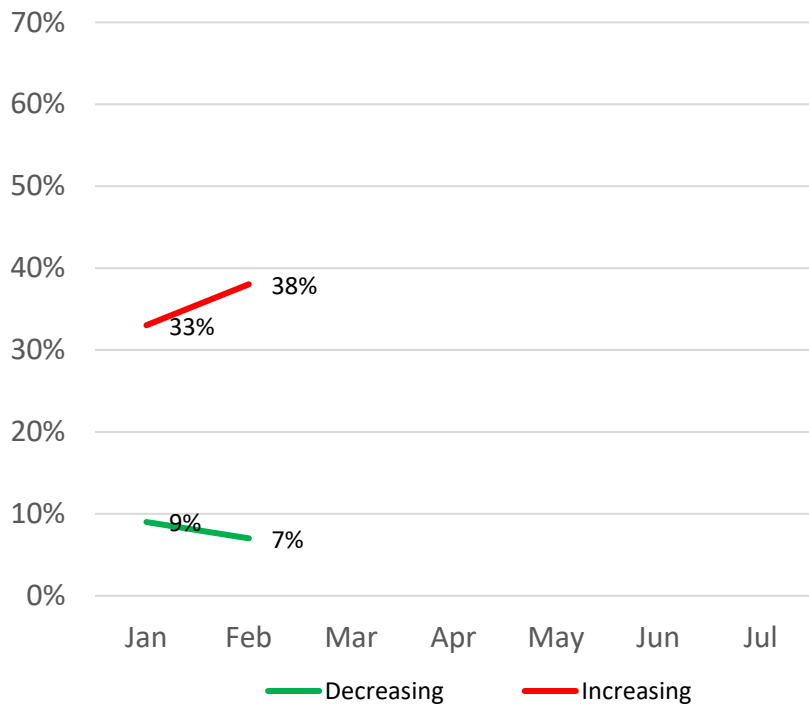
Inventory Status

(Using a scale of 1 to 5 with 1 being extremely low inventory, 3 being the normal amount, and 5 being extremely high; how do you view inventory levels for the following products?)

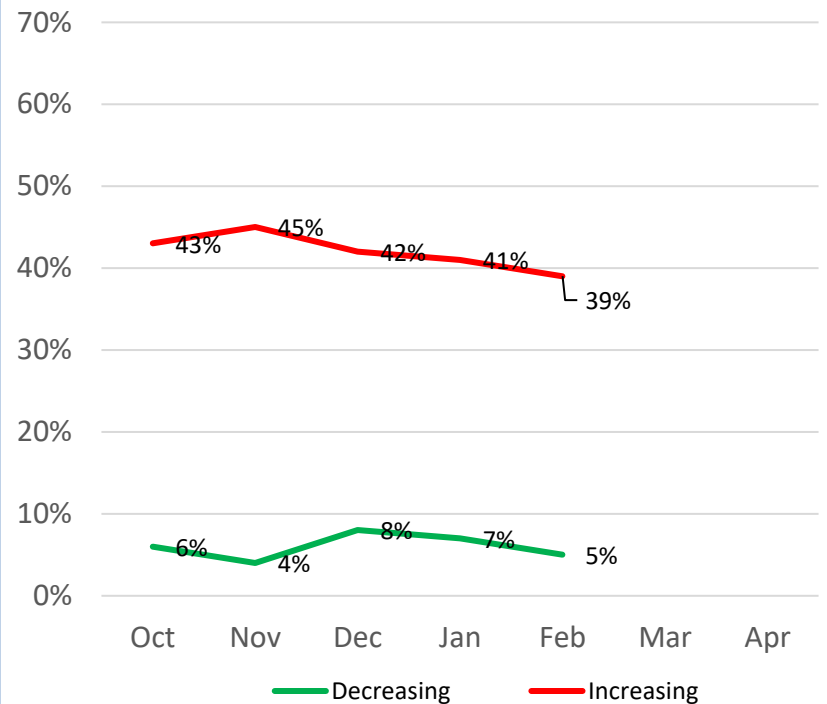


Q/Q Inventory Growth

C2Q21 Inventories vs. C1Q21

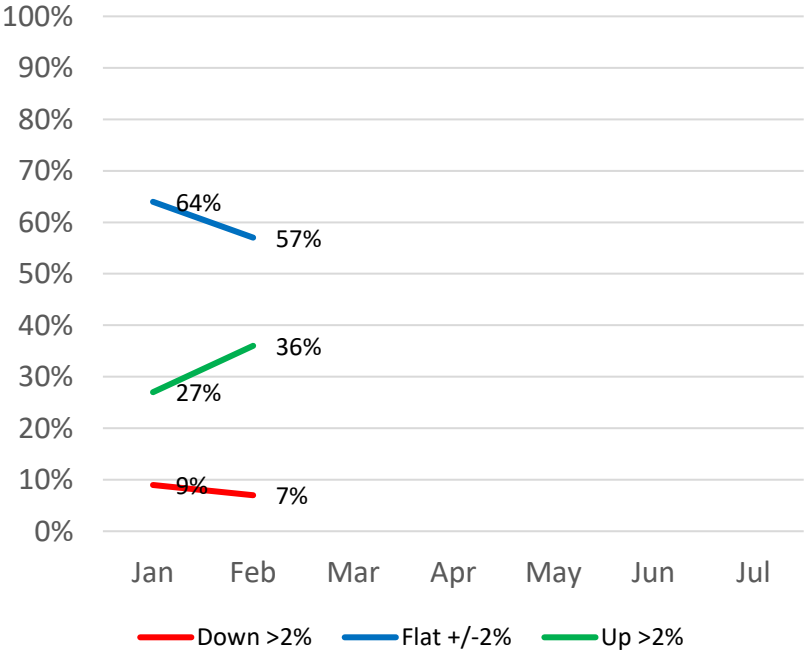


C1Q21 Inventories vs. C4Q20

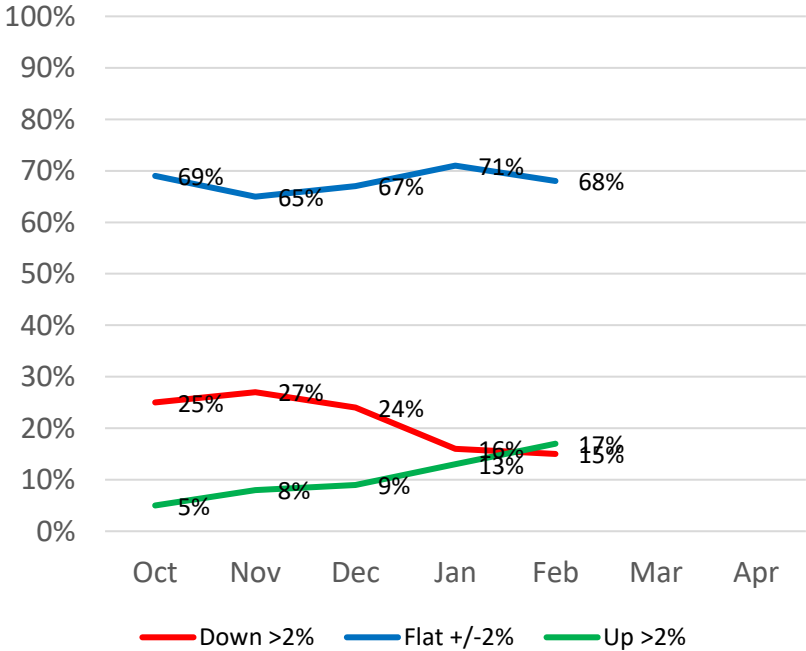


Q/Q Pricing Trends

C2Q21 Pricing vs. C1Q21



C1Q21 Pricing vs. C4Q20



Vertical Outlook

The outlook for Communications continues to be above previous years while Auto continues to erode

