



# **TPC Semiconductor Market Survey**

**February 17, 2021**

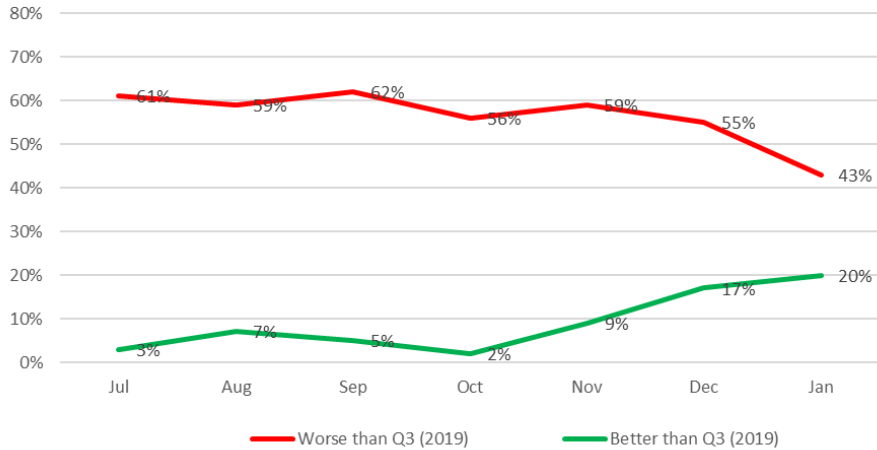
# TPC January 2020 Survey Summary

*Survey Date: 2/6-8 Respondents: ~11,600 Location: Worldwide (~80% Asia) Who: Active Electronics Industry Professionals  
Response Composition (multiple choices): Industrial 39%, Auto 22%, Comm 20%, Computing 21%, Mobile 34%, Data Ctr 17%, Other 16%*

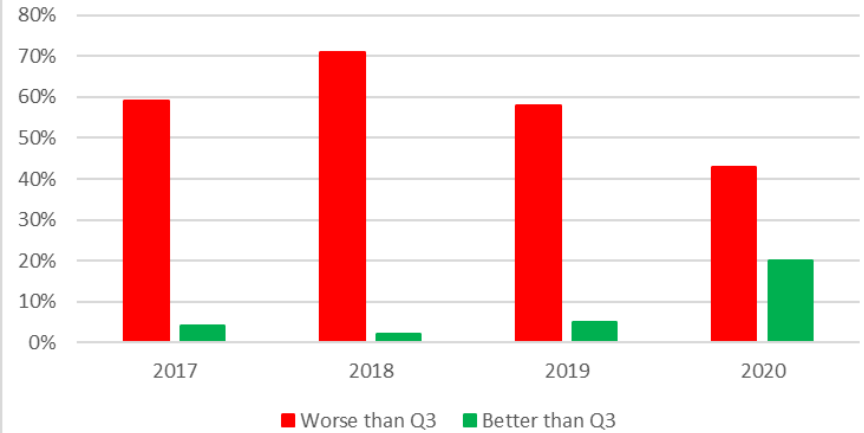
- We recently completed our monthly survey (~16,600 respondents) which saw significant improvements in both how C4Q20 finished as well as C1Q21 growth expectations. Seasonality also continues to be much better than in the previous 3 years. The bookings outlook for C1Q also improved slightly, while C4Q20's bookings finished stronger.
- 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 the thought it will likely remain strong throughout the year.
- The survey showed a growth outlook for C4Q20 improving vs. last month with 20% expecting q/q growth vs. 17% previously and only 43% see it as weaker vs. 55% last month. The C1Q outlook improved with 25% expecting q/q growth vs. 19% previously and now only 44% see it as weaker vs. 52% last month.
- The survey showed slight improvement in bookings for C1Q21 with 21% expecting improving bookings vs. C4Q compared to 23% last month, and 11% now expect weaker bookings vs. 15% last month.
- Backlog cancellation expectations (slide 6) improved showing a slight improvement vs. 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.

# Q/Q Demand Growth Outlook

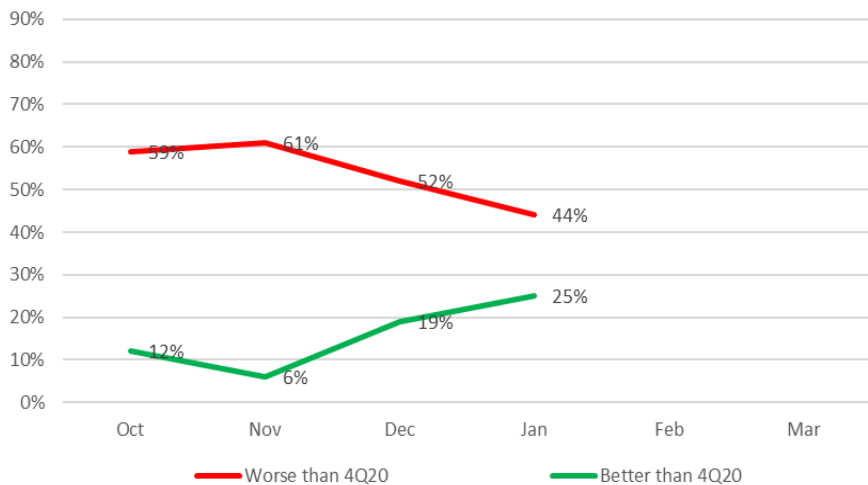
### 4Q Growth Expectations



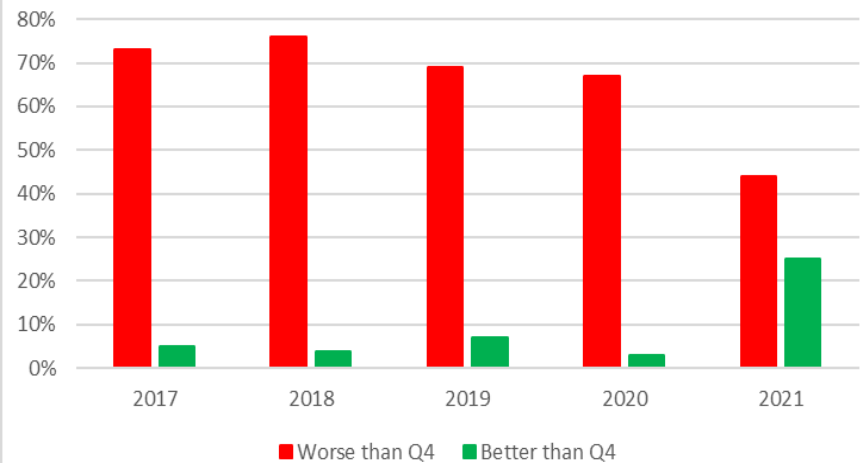
### C4Q Growth Expectations vs. C3Q



### C1Q Growth Expectations

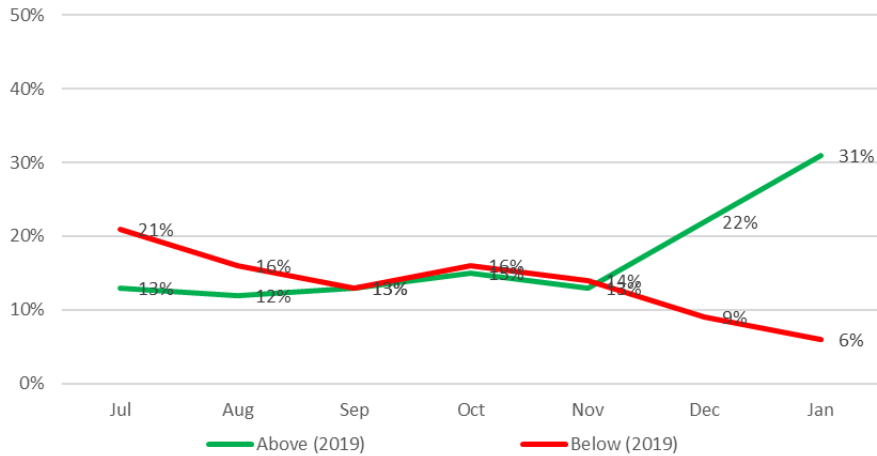


### C1Q Growth Expectations vs. C4Q

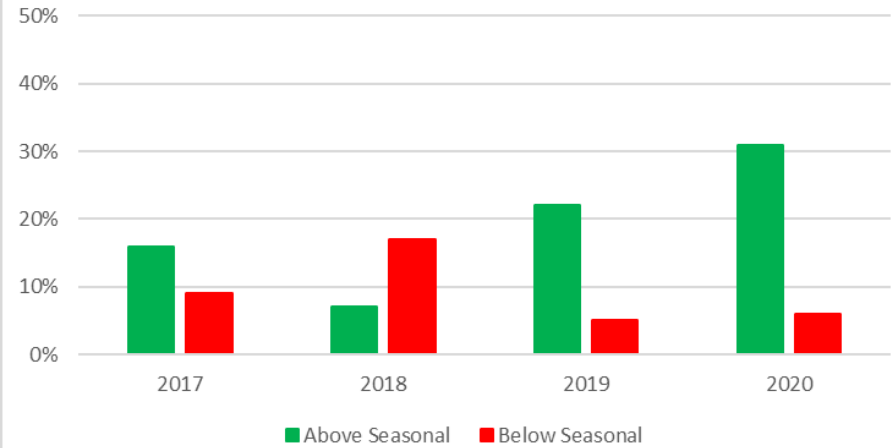


# Q/Q Seasonality Expectations

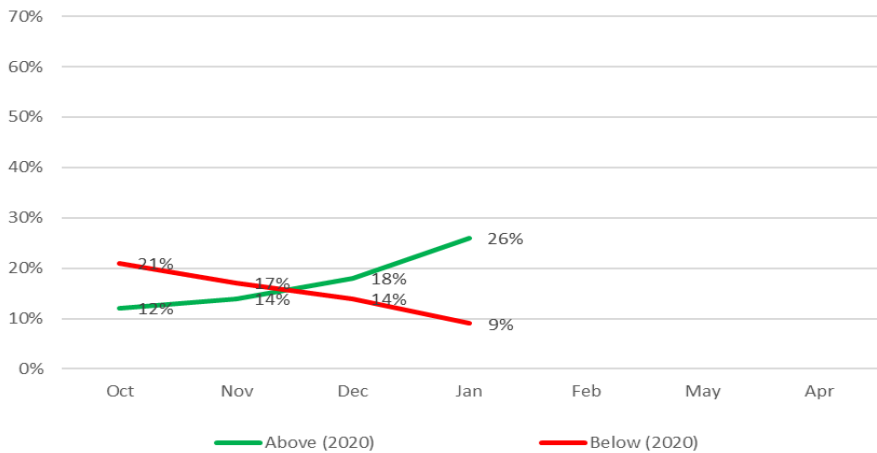
### 4Q Seasonality Expectations



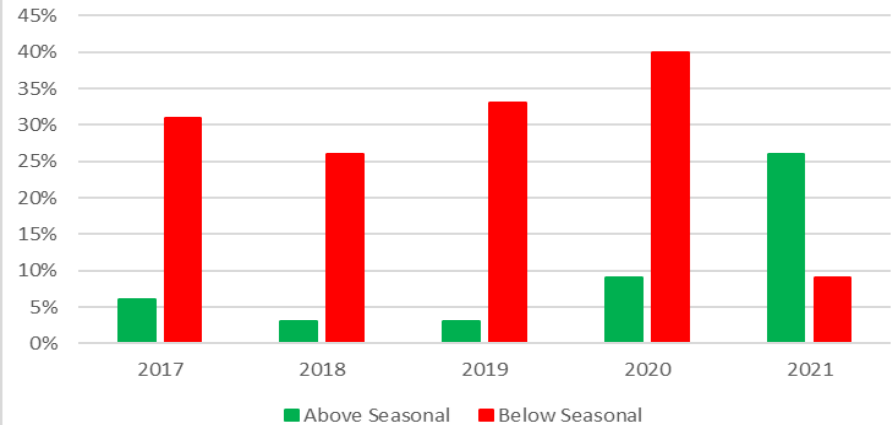
### C4Q Seasonality Expectations



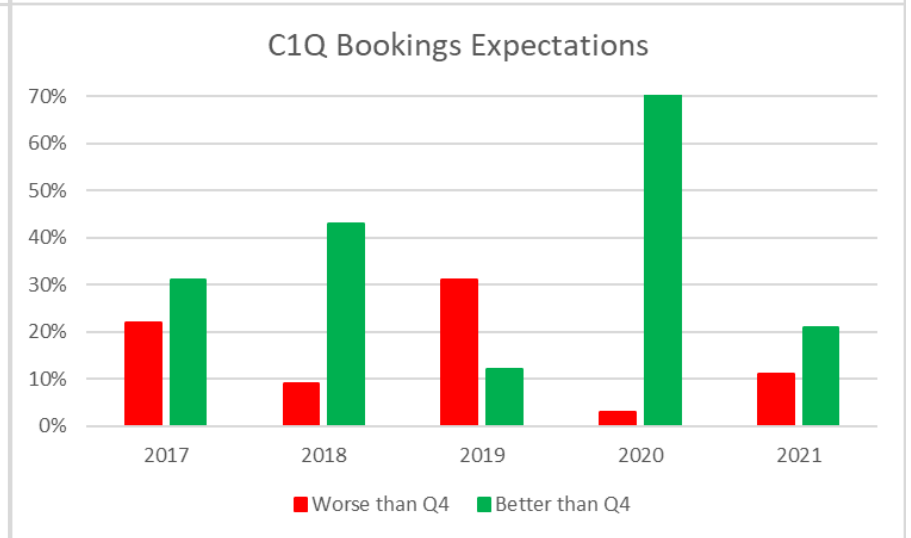
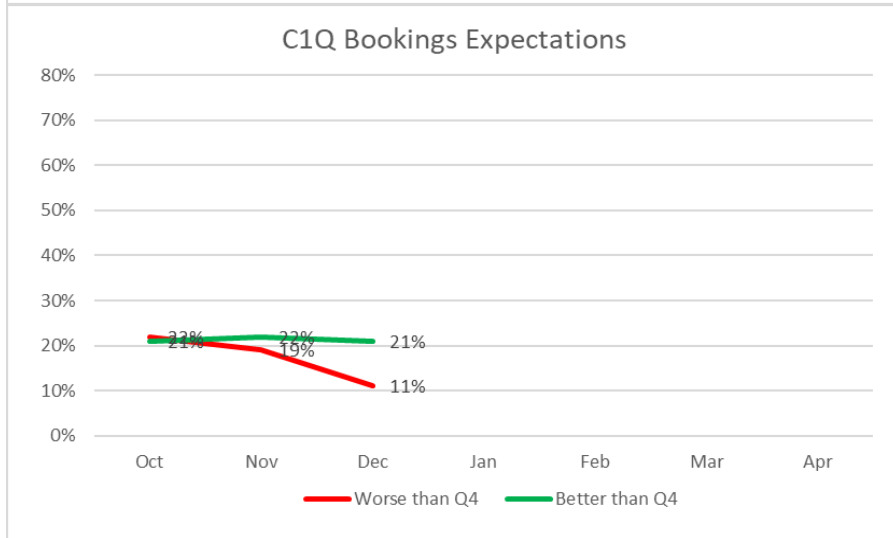
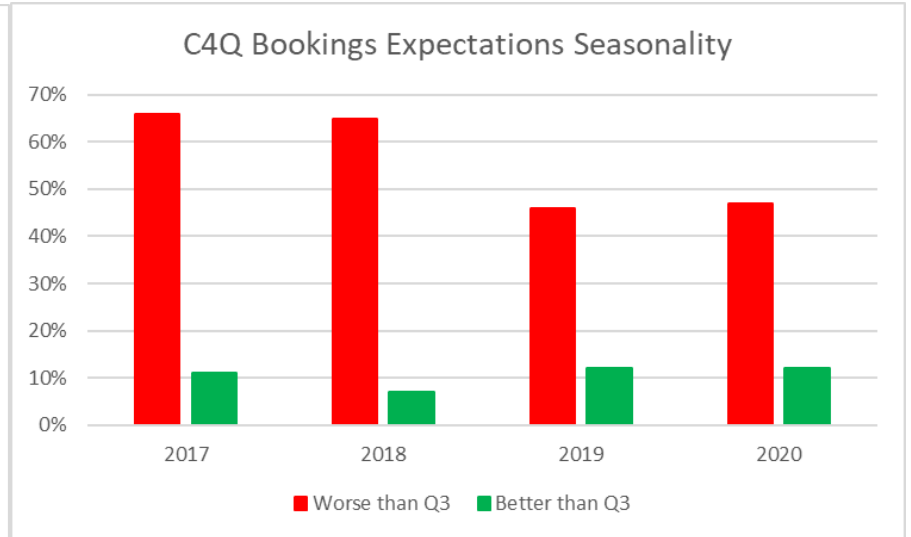
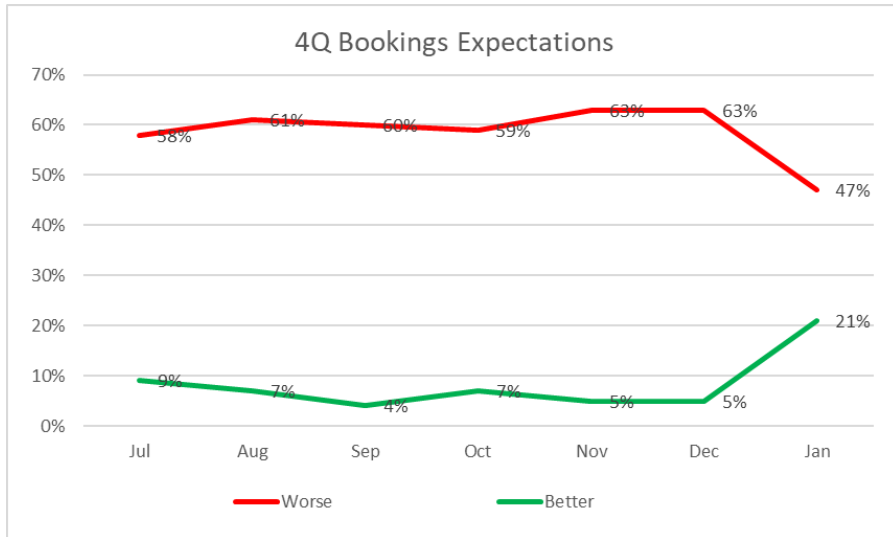
### C1Q Seasonality Expectations



### C1Q Seasonality Expectations

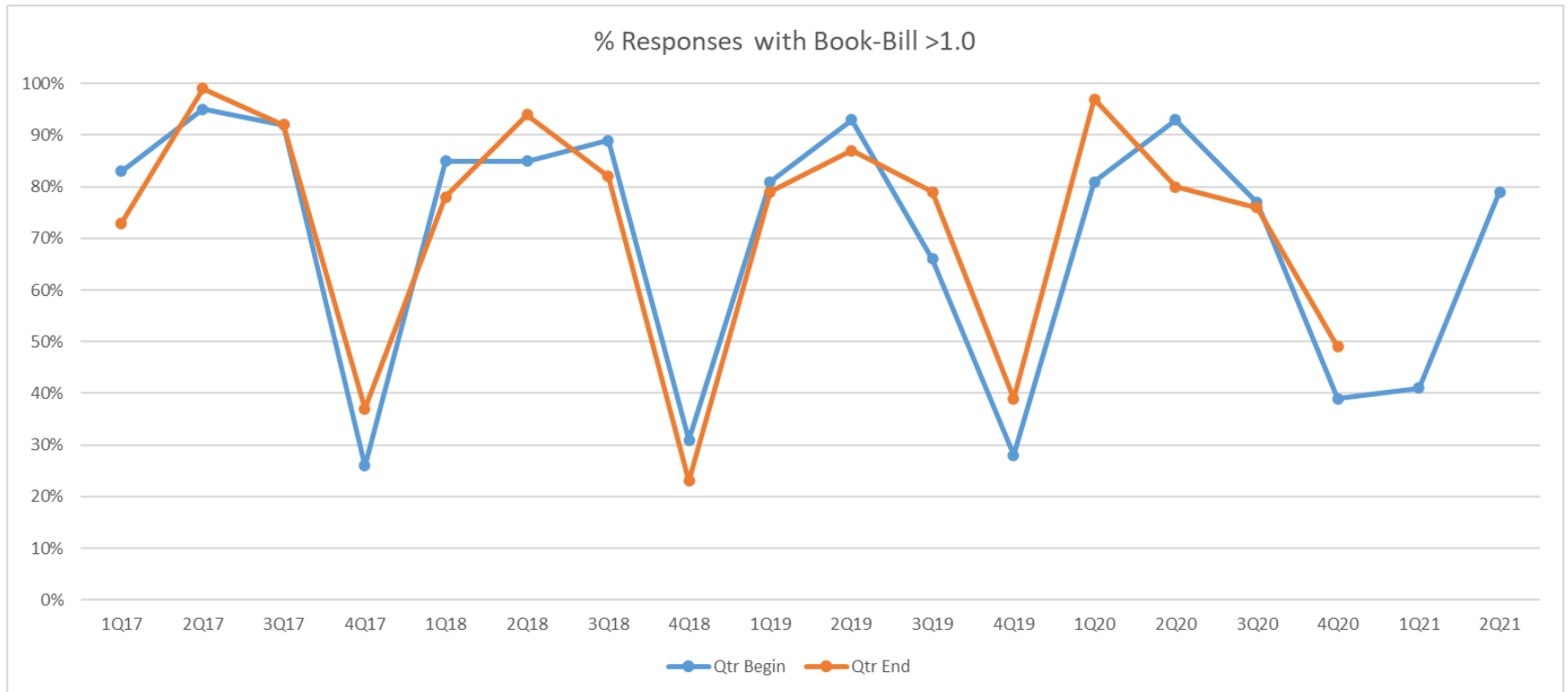


# Q/Q Bookings Growth Expectations



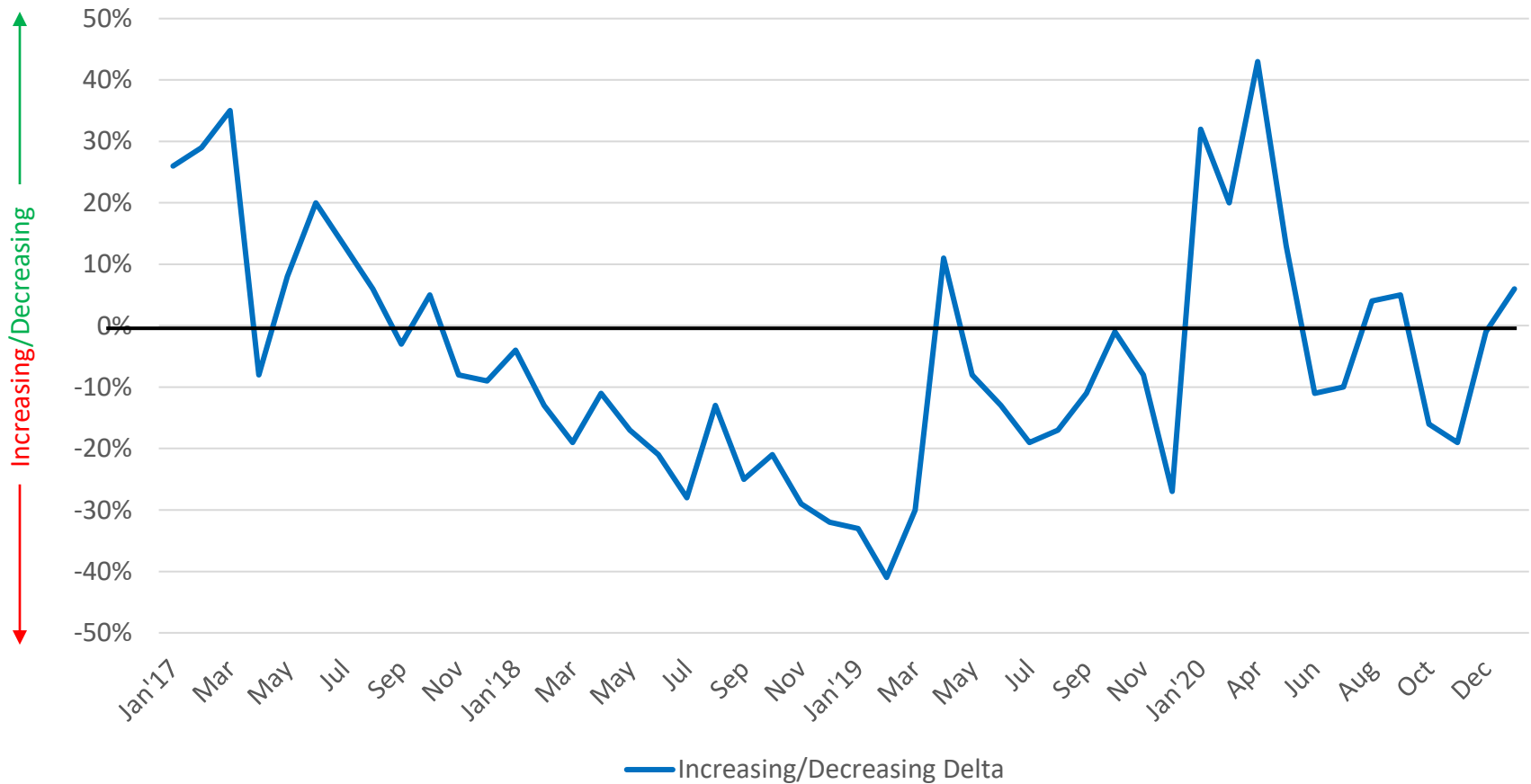
# Book to Bill History & Trends

(By Calendar Quarters)



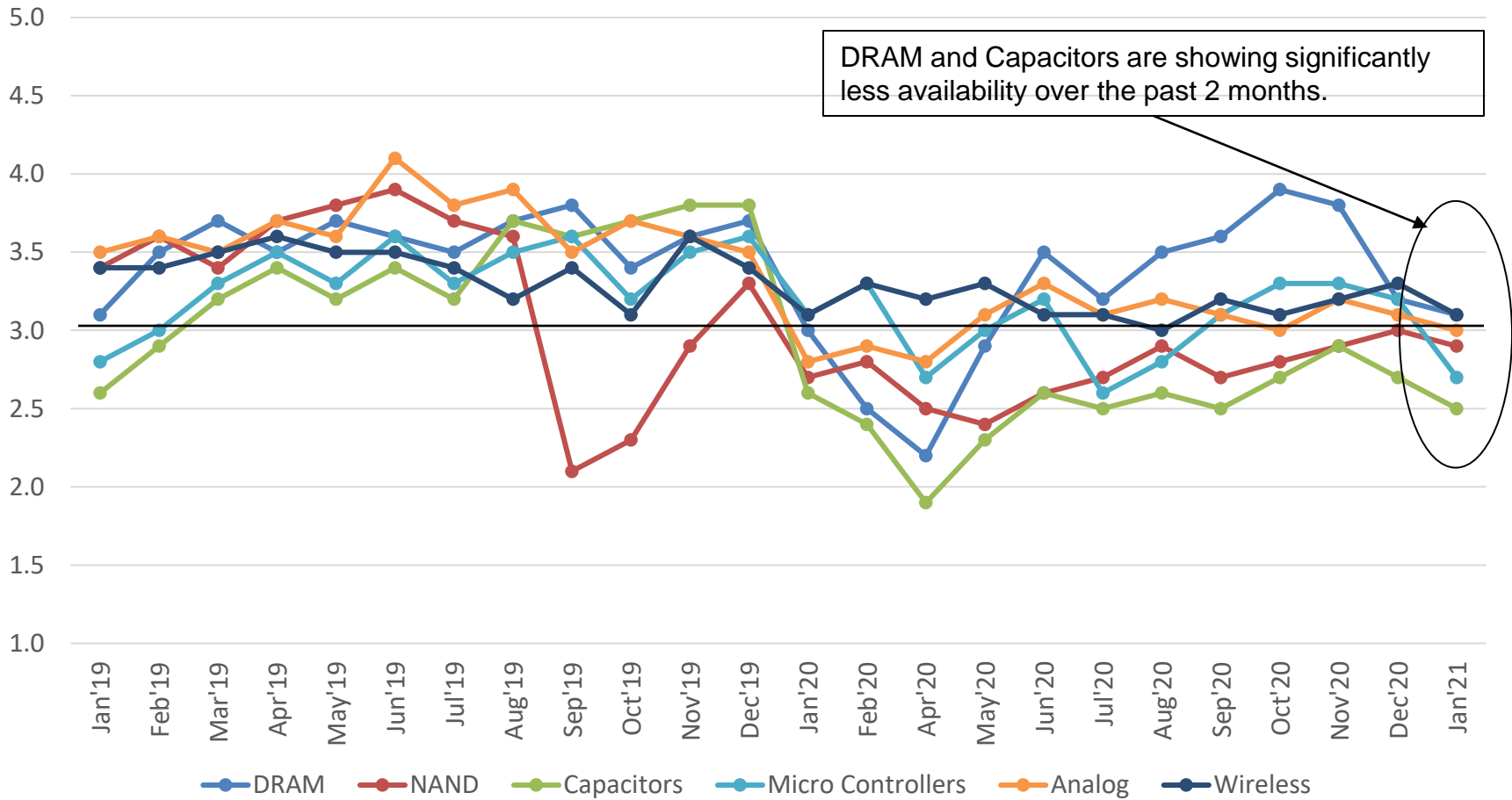
# Backlog Order Cancellations vs. 30 Days Ago

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



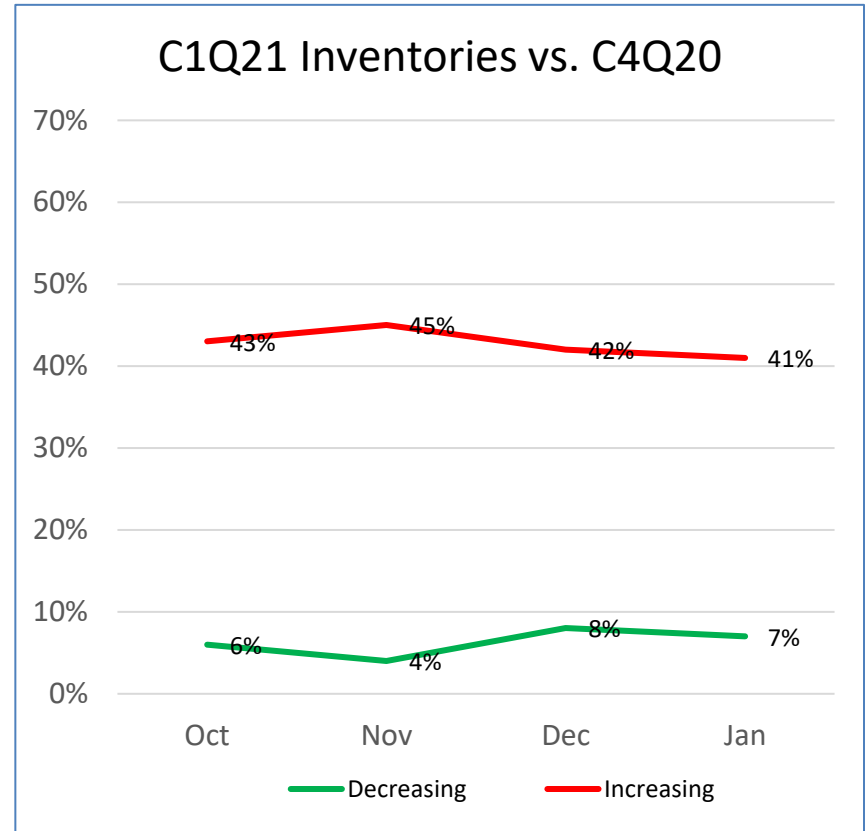
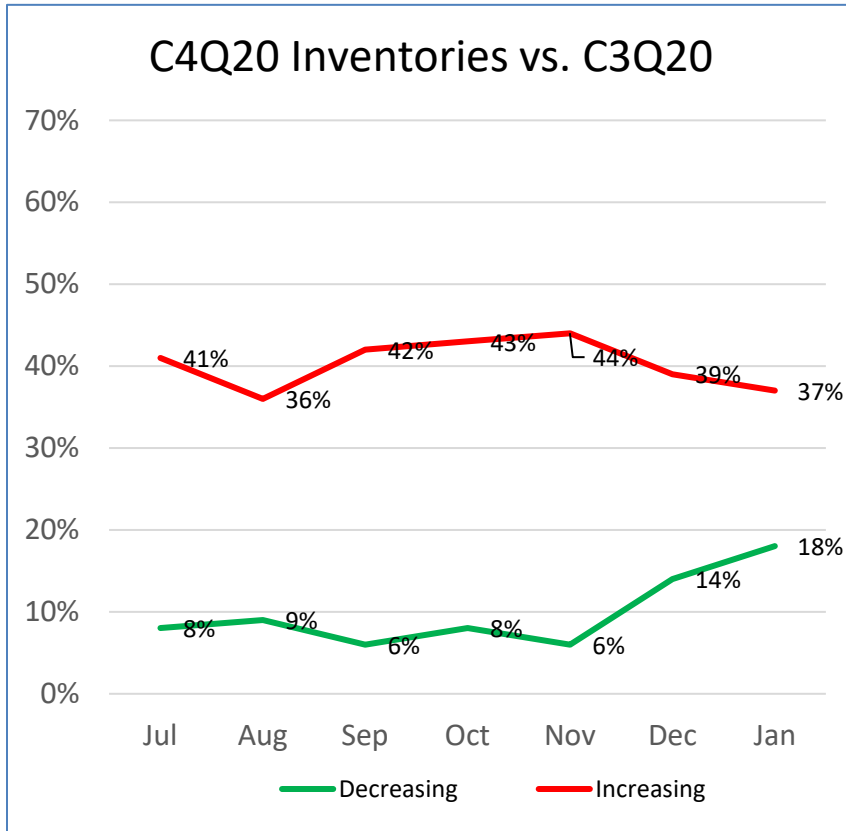
# Inventory Status

(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?)



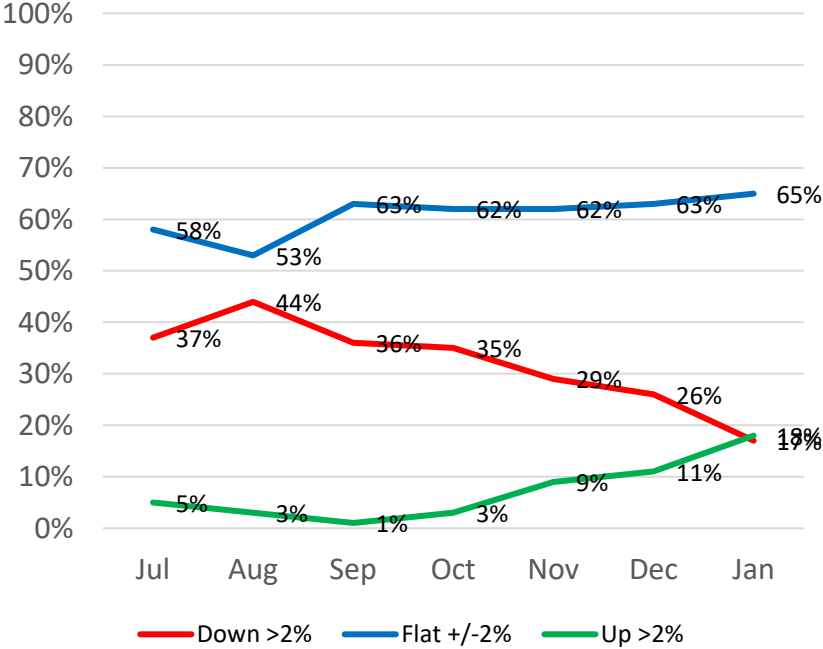


# Q/Q Inventory Growth

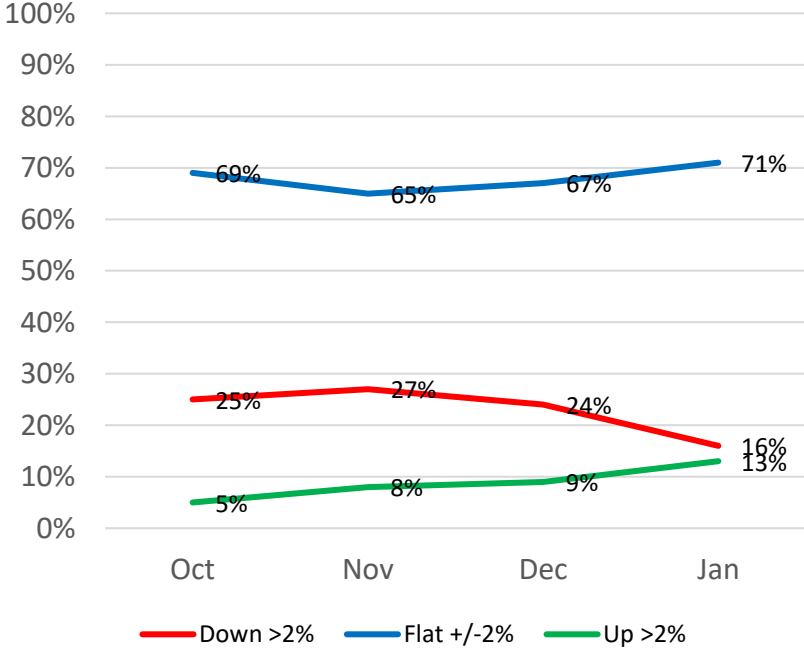


# Q/Q Pricing Trends

### C4Q20 Pricing vs. C3Q20



### C1Q21 Pricing vs. C4Q20



# Vertical Outlook

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

