



# **TPC Semiconductor Market Survey**

**September/October 2024**

# September/October '24 Survey Summary

*Survey Date: 10/15-20 Respondents: ~6,500 Location: Worldwide (~80% Asia) Who: Active Electronics Industry Professionals  
Response Composition (multiple choices): Industrial 34%, Auto 21%, Comm 20%, Computing 25%, Mobile 21%, Data Ctr 20%, Other 15%*

- Our latest monthly survey shows continued positive trends in C3Q, while C4Q continues to show weaker expectations. Some of the more positive indicators continue to be the C3Q booking's outlook and end demand outlook being at a 6-year high. C4Q bookings outlook is also significantly above the past 7 years data.
- The above continues to point to what we believe is a recovery although slower, as we head into C4Q (inventory responses still shows issues) and early CY25.
- Our C3Q24 outlook (slide 4) showed improvement vs. last month. This month, 75% see it as better vs. 73% last month with the seasonality outlook also improved. The bookings outlook for C3Q remained roughly the same vs. last month's outlook; but remained much stronger compared to previous years.
- Our C4Q24 outlook (slide 5) showed a weakening outlook vs. last month. This month, 5% see it as better vs. 9% last month with the seasonality outlook also weaker. The bookings outlook for C4Q was also weaker vs. last month's outlook; but remained stronger compared to previous years.
- Cancellation/reschedules expectations (slide 8) remained close to neutral levels. We believe this is neither positive nor negative as inventory levels return to more nominal levels.
- Most key product inventories and availability (slides 9 & 10) remained in the average range.
- Inventory levels (slide 11) showed little changes for C3Q and C4Q.
- Pricing trends (slide 12) are starting to stabilize and in some instances starting to increase in some areas (high end MCU's).

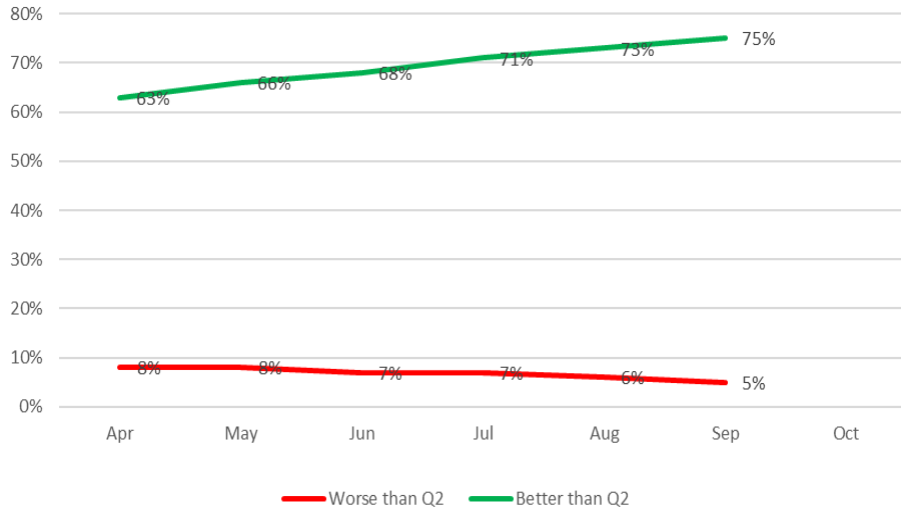
# Survey Question Definitions

- **Outlook**
  - Do you anticipate end demand (billings) for the current quarter better, worse or the same vs. the previous quarter. Same question for the upcoming quarter.
- **Seasonality**
  - Do you see end demand (billings) for the current quarter seasonally better, worse or the same vs. the same quarter in previous years. Same question for the upcoming quarter.
- **Bookings**
  - Do you anticipate bookings for the current quarter better, worse or the same vs. the previous quarter. Same question for the upcoming quarter.
- **Inventory**
  - Do you see inventory for the current quarter better, worse or the same vs. the previous quarter. Same question for the upcoming quarter.

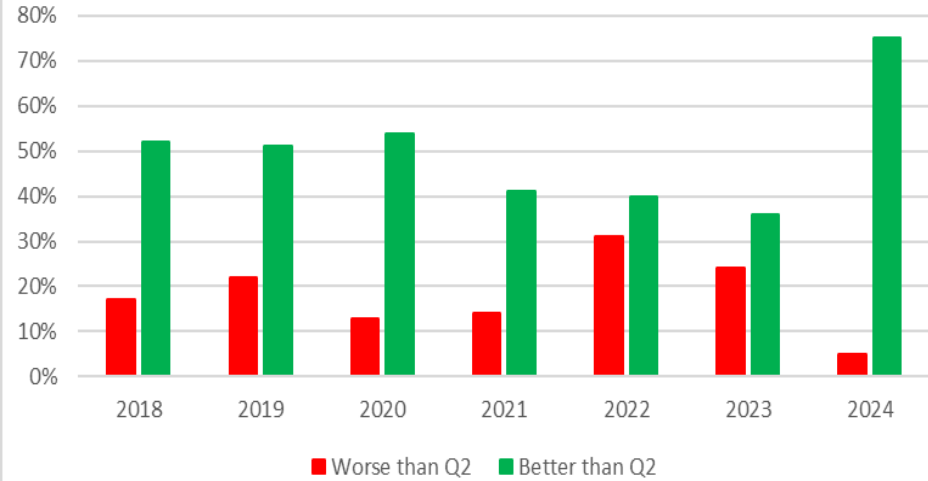
# C3Q24 Outlook

C3Q outlook continues to show growth expectations exceeding the previous 6 years

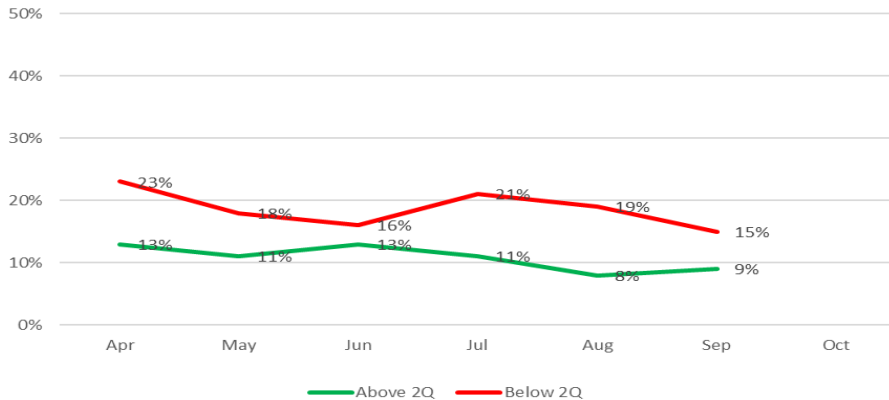
C3Q24 Growth Expectations



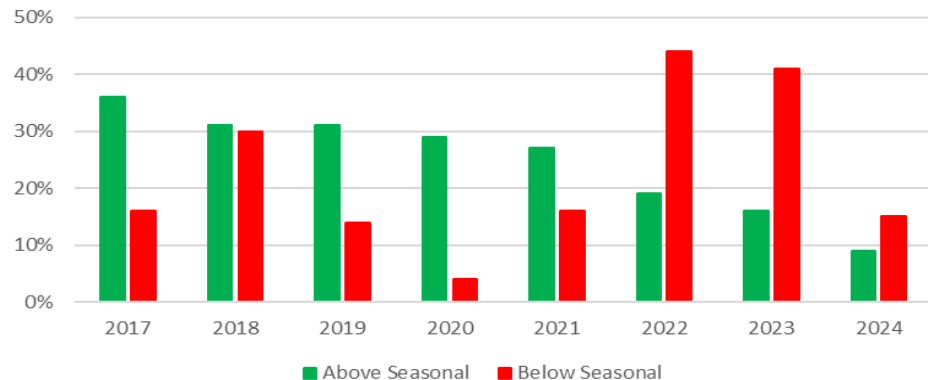
C3Q Growth Expectations vs. C2Q



3Q24 Seasonality Expectations



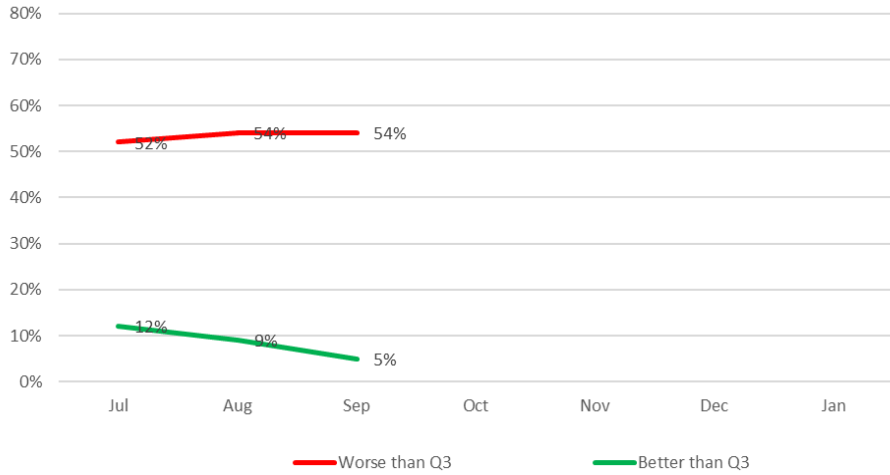
C3Q Seasonality Expectations



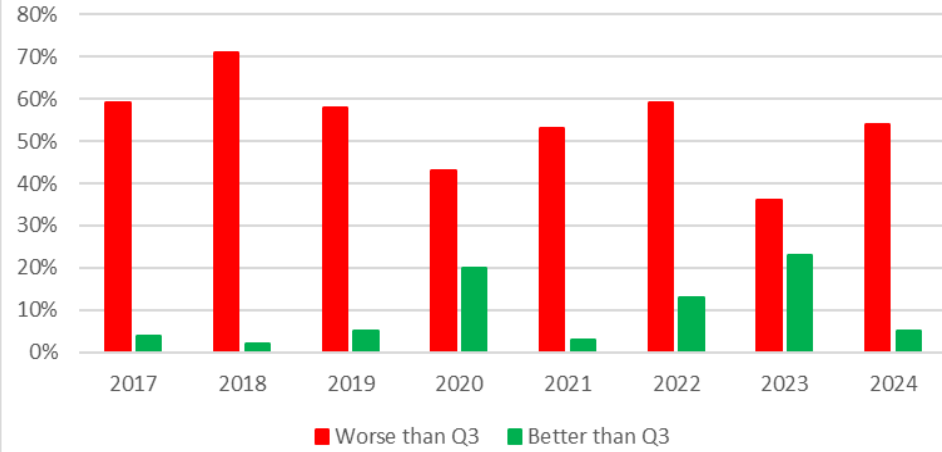
# C4Q24 Outlook

C4Q's outlook has weakened over the last 2 months with seasonality weaker than the past 2 years.

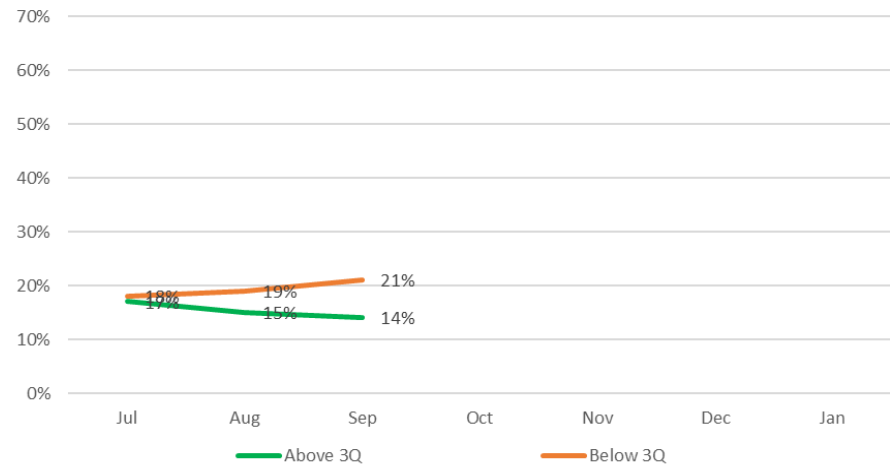
### 4Q24 Growth Expectations



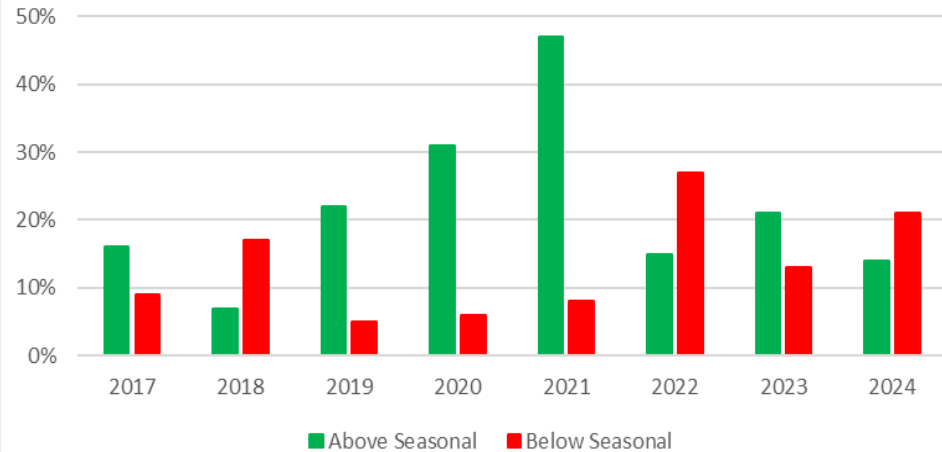
### C4Q Growth Expectations



### 4Q24 Seasonality Expectations



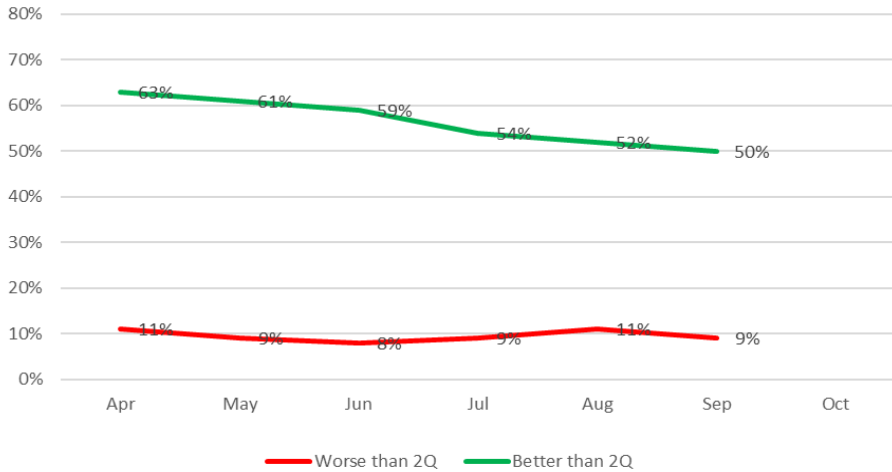
### C4Q Seasonality Expectations



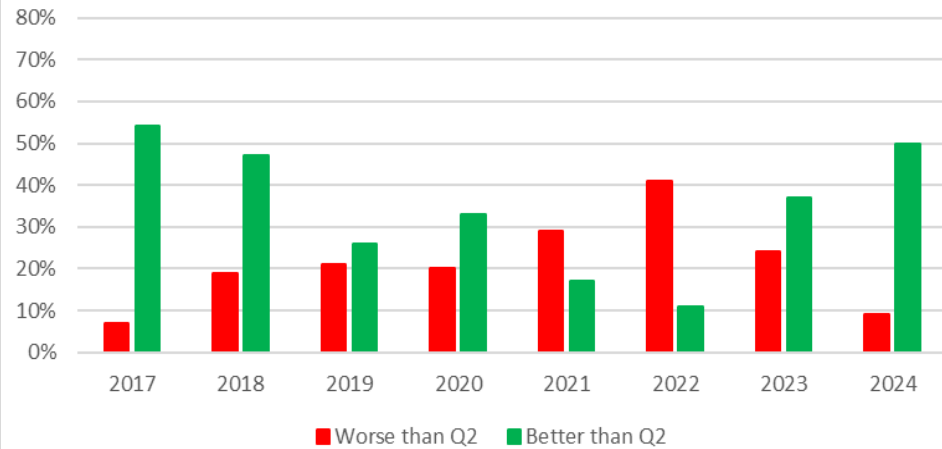
# Bookings Outlook

C3Q outlook shows bookings outlook at 7-year highs compared to previous Q3's; with C4Q also showing better trends compared to previous years.

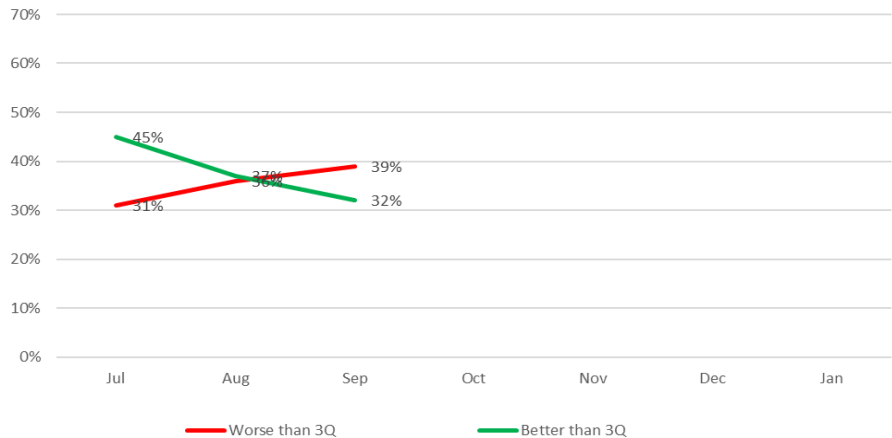
### C3Q24 Bookings Expectations



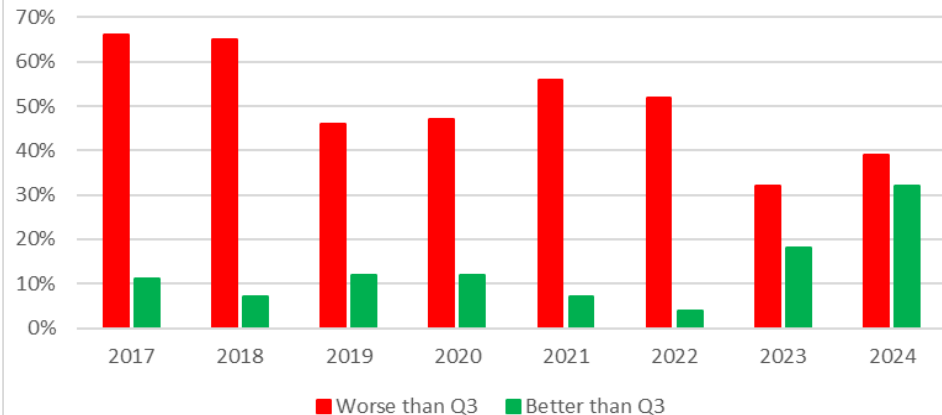
### C3Q Bookings Expectations



### 4Q24 Bookings Expectations

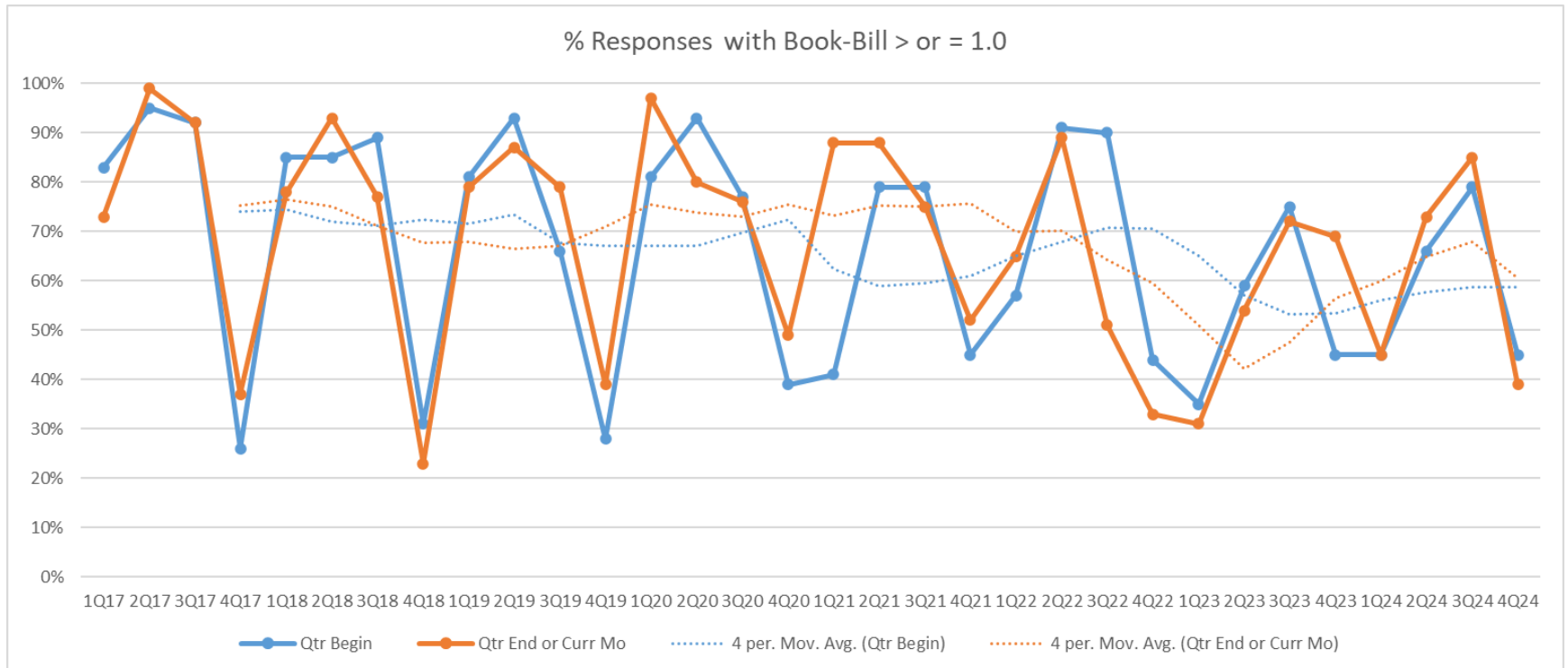


### C4Q Bookings Expectations



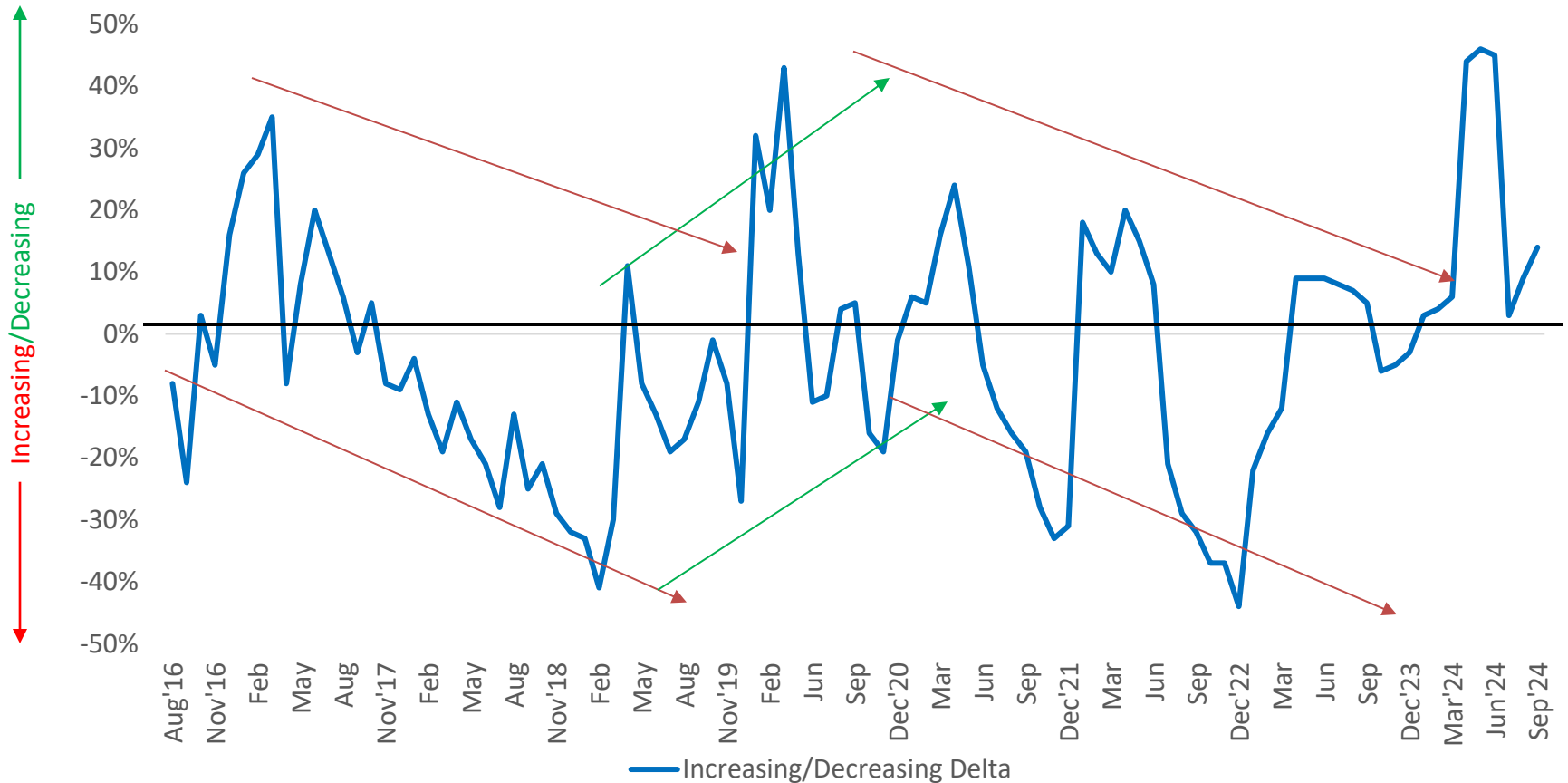
# Book to Bill History & Trends

(Calendar quarters)



# Backlog Order Push Outs/Cancellations vs. 30 Days Ago

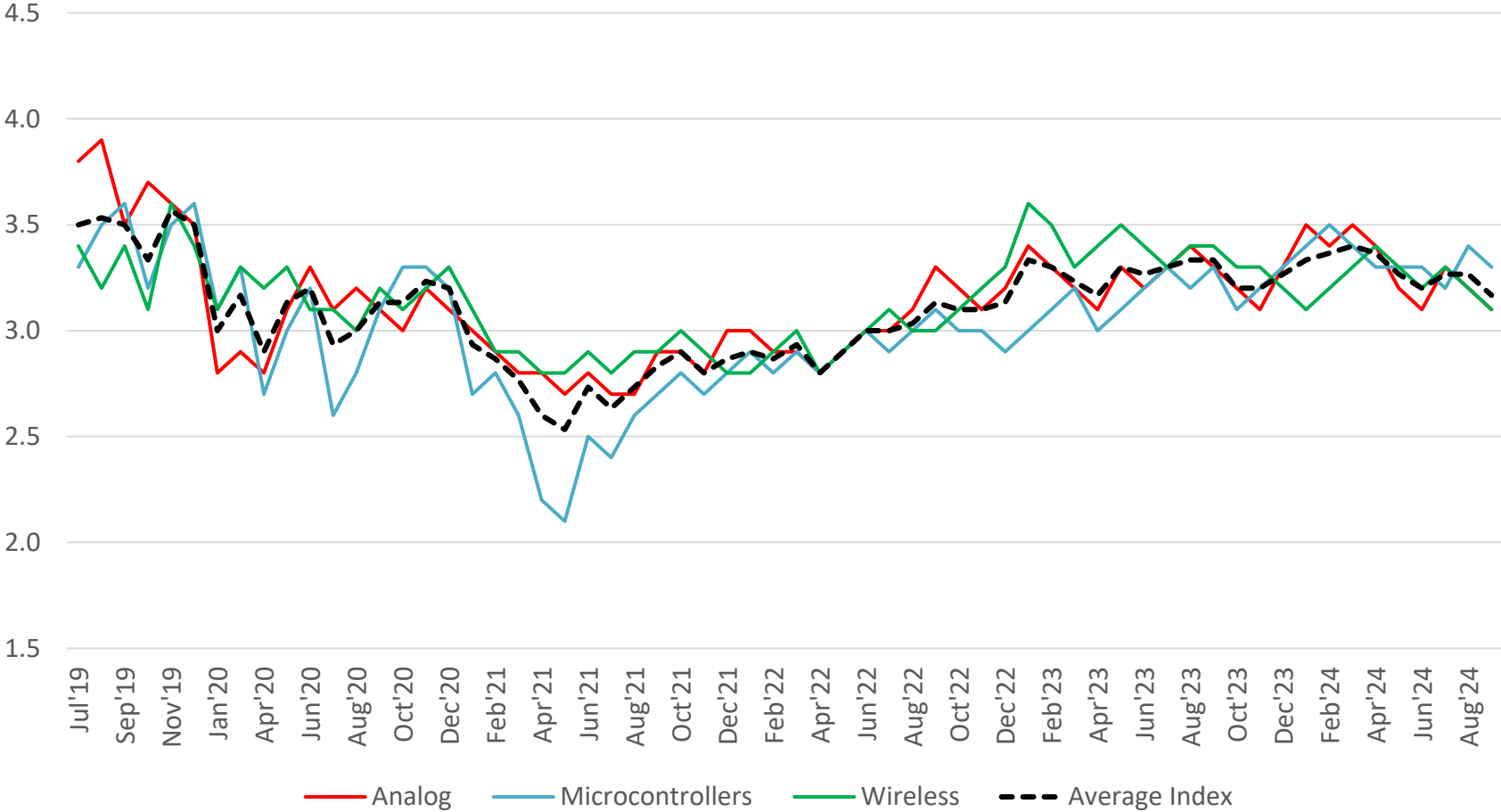
(Delta between increasing and decreasing cancellations – Higher % is more positive)





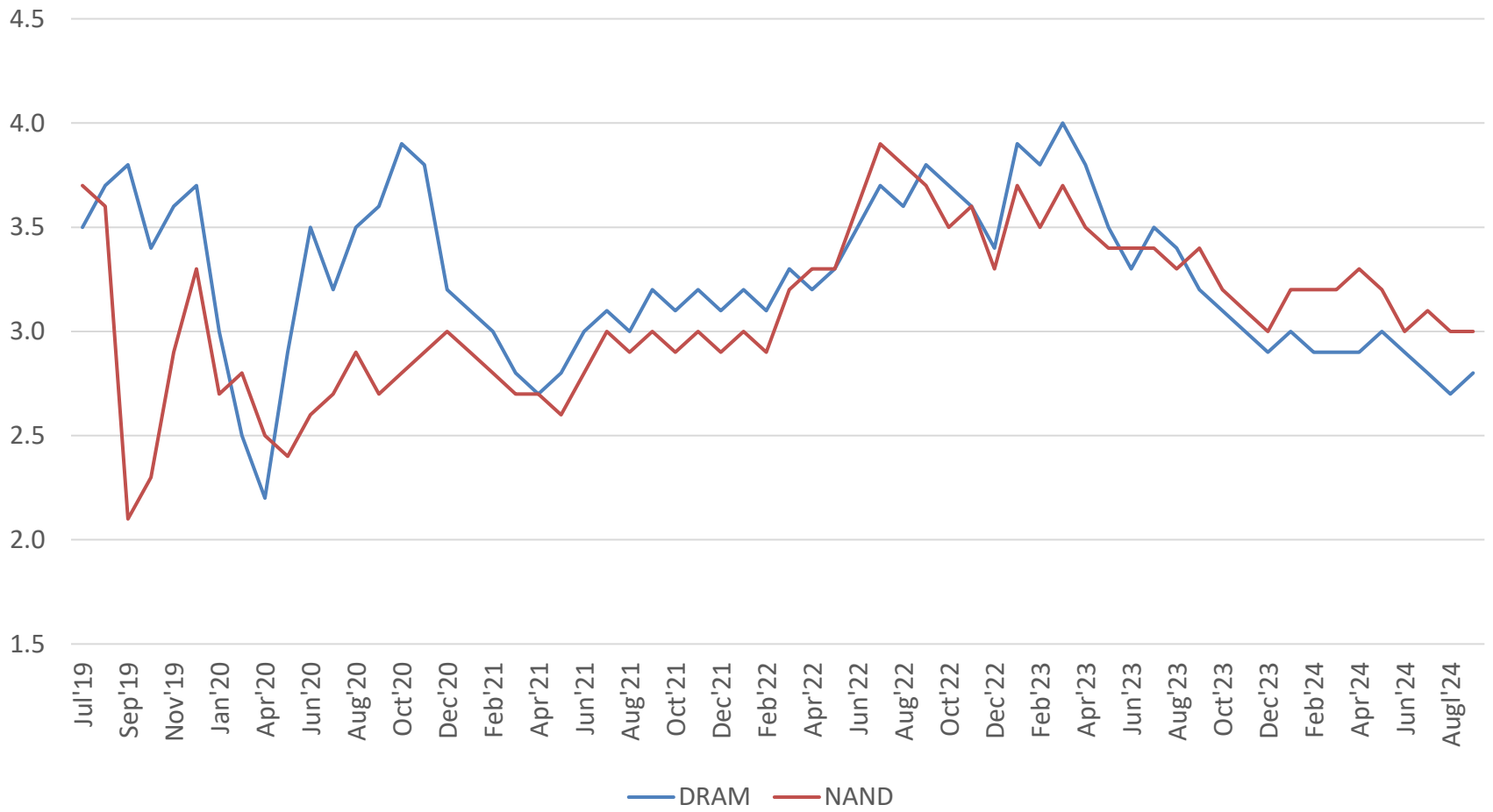
# Component Inventory Status (x-Memory)

(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?)



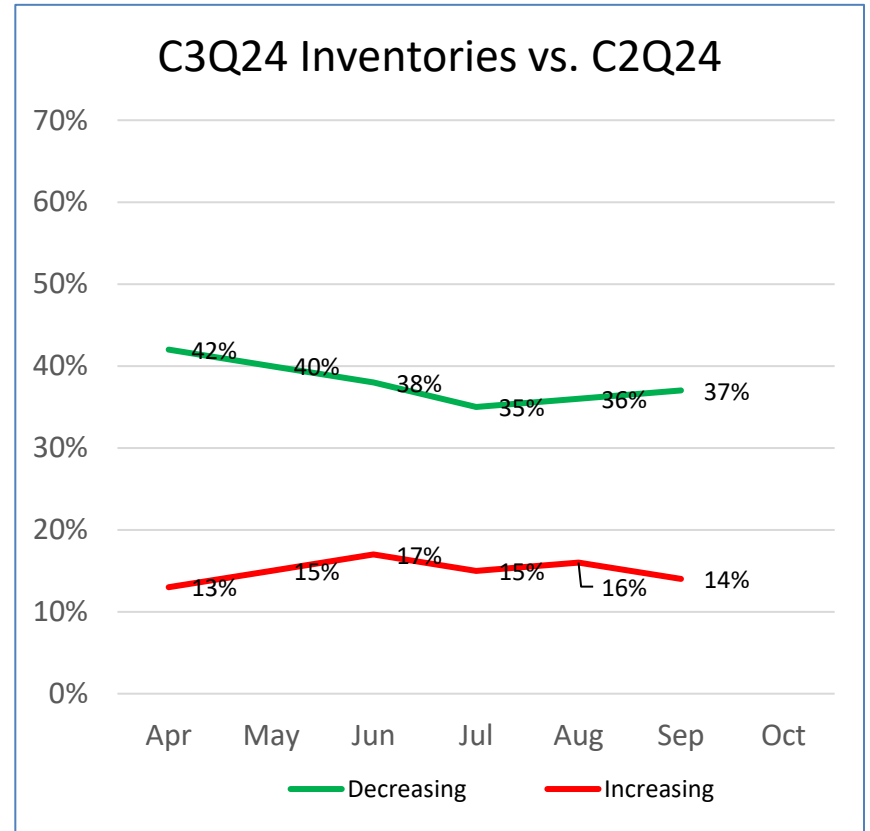
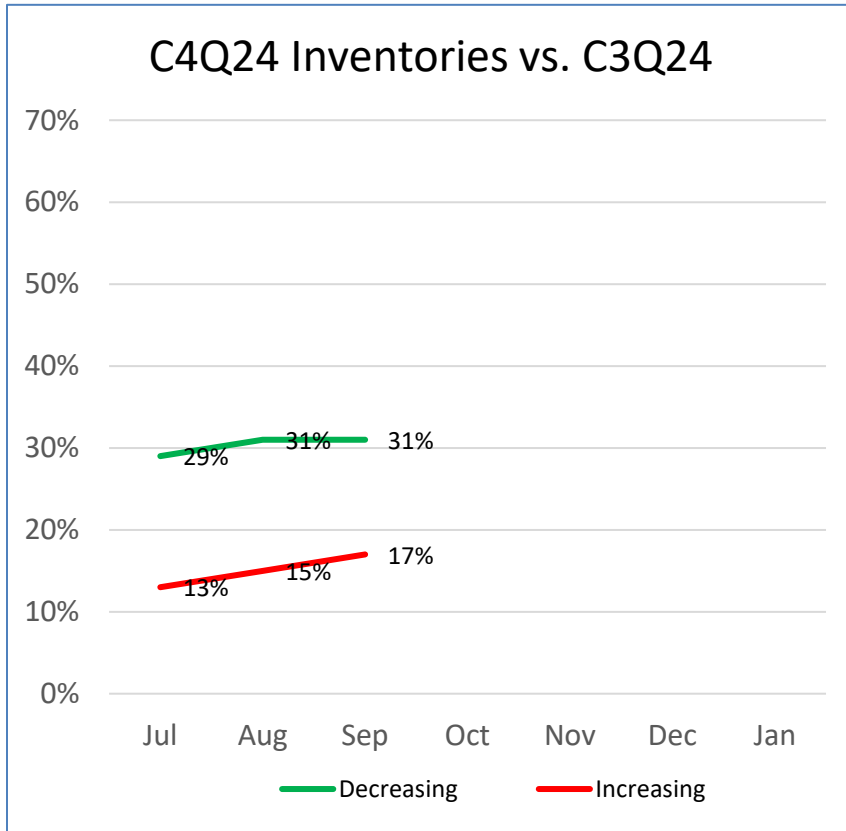
# Memory Inventory Status

(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 memory products?)



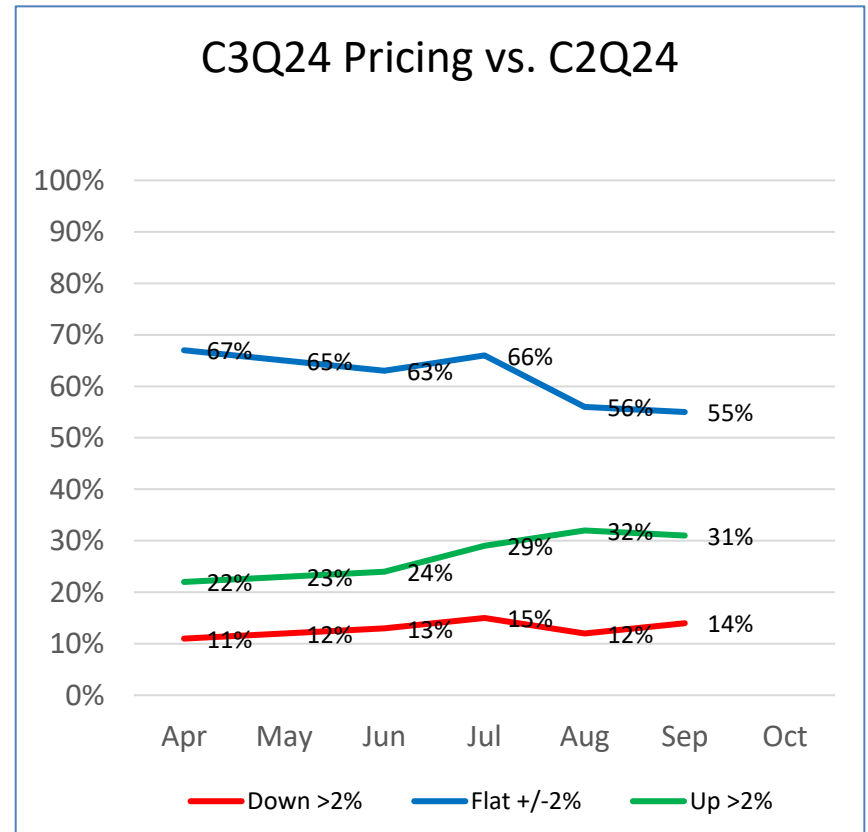
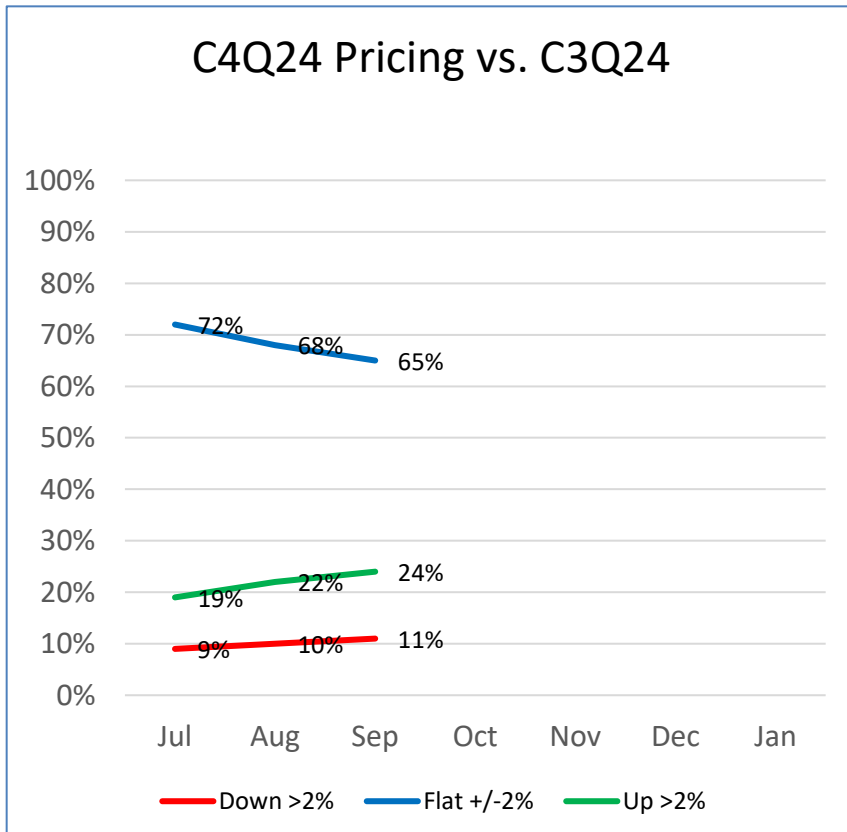
# Q/Q Inventory Growth

Inventory levels showed little change for C3Q and C4Q.



# Q/Q Pricing Trends

Pricing is starting to stabilize and, in some instances, starting to increase in some areas (high end MCU's and some analog).



# Vertical Outlook

Industrial continues to weaken over the past year.  
Consumer continues to rebound.

