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Figure 1.

S&P 500 TECHNOLOGY HARDWARE, STORAGE & PERIPHERALS STOCK PRICE INDEX*
(AAPL HPE HPQ NTAP STX WDC XRX)

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- 200-day moving average.
- Ratio scale.
- Source: Standard & Poor’s and Haver Analytics.

Figure 2.

S&P 500 TECHNOLOGY HARDWARE, STORAGE & PERIPHERALS INDEX,
FORWARD EARNINGS, & VALUATION

- Technology Hardware Storage & Peripherals Index
  09/20/19
- Blue Angels Implied Price Index*
  09/12/19

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* Implied price index calculated using forward earnings times forward P/Es.
Source: Standard & Poor’s and I/B/E/S data by Refinitiv.
* Time-weighted average of consensus estimates for current year and next year. Monthly through December 2005, then weekly.

Source: I/B/E/S data by Refinitiv.
Figure 5.
S&P 500 TECHNOLOGY HARDWARE, STORAGE & PERIPHERALS
ANNUAL REVENUE GROWTH FORECASTS*
(based on analysts’ consensus estimates, percent, weekly)

Source: I/B/E/S data by Refinitiv.

Figure 6.
S&P 500 TECHNOLOGY HARDWARE, STORAGE & PERIPHERALS
ANNUAL EARNINGS GROWTH FORECASTS*
(based on analysts’ consensus estimates, percent, weekly)

Source: I/B/E/S data by Refinitiv.
Margins & NERI

Figure 7.
S&P 500 TECHNOLOGY HARDWARE, STORAGE & PERIPHERALS PROJECTED PROFIT MARGIN
(using analysts’ average earnings and revenues forecasts)

Consensus Forecasts
- Annual estimates
- Forward profit margin* (17.1)

* Time-weighted average of the consensus estimates for current year and next year. Monthly through December 2005, weekly thereafter.
Source: I/B/E/S data by Refinitiv.

Figure 8.
S&P 500 TECHNOLOGY HARDWARE, STORAGE & PERIPHERALS NET EARNINGS REVISIONS*

* Three-month moving average of the number of forward earnings estimates up less number of estimates down, expressed as a percentage of the total number of forward earnings estimates.
Source: I/B/E/S data by Refinitiv.
**Figure 9.**

S&P 500 TECHNOLOGY HARDWARE, STORAGE & PERIPHERALS STRG, STEG, & LTEG (percent)

- STEG* is year-ahead forward consensus expected short-term earnings growth. STRG is year-ahead forward consensus expected short-term revenue growth. LTEG is five-year consensus expected long-term earnings growth.
- Monthly data through 2005, weekly thereafter.
- Source: I/B/E/S data by Refinitiv.

<table>
<thead>
<tr>
<th>Year</th>
<th>LTEG*</th>
<th>STEG*</th>
<th>STRG*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(9.0)</td>
<td>(7.9)</td>
<td>(2.7)</td>
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</tbody>
</table>

* Price divided by 12-month forward consensus expected operating earnings per share.
** Sector or industry forward P/E relative to S&P 500 forward P/E.
*** Sector or industry forward P/E relative to sector or industry consensus 5-year LTEG forecast.
Source: I/B/E/S data by Refinitiv.

**Figure 10.**

S&P 500 TECHNOLOGY HARDWARE, STORAGE & PERIPHERALS VALUATION

- Forward P/E* (16.4)
- Relative P/E** (1.0)
- PEG Ratio*** (1.8)
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