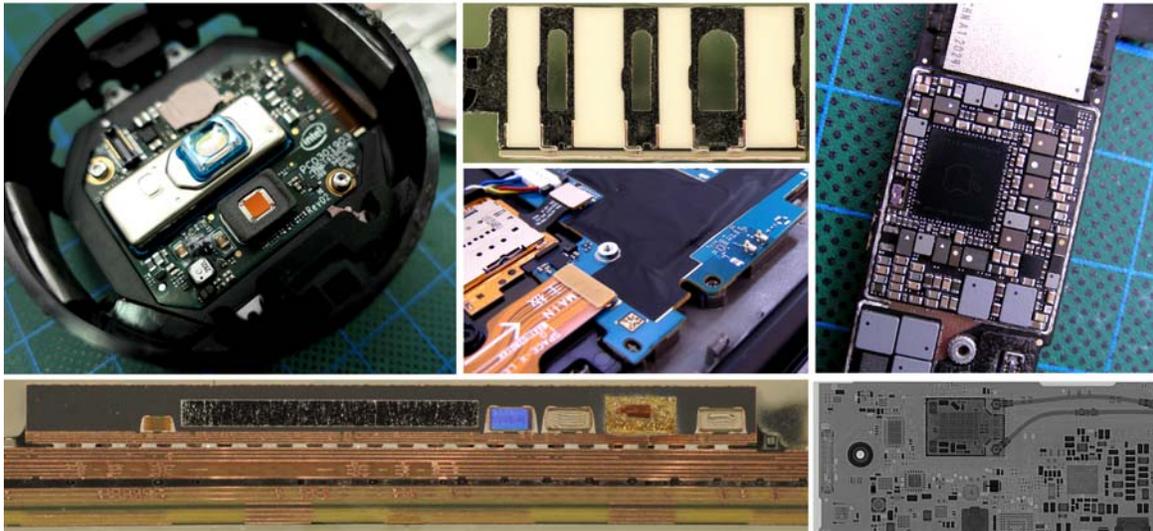


# THE PRINTED CIRCUIT REPORT

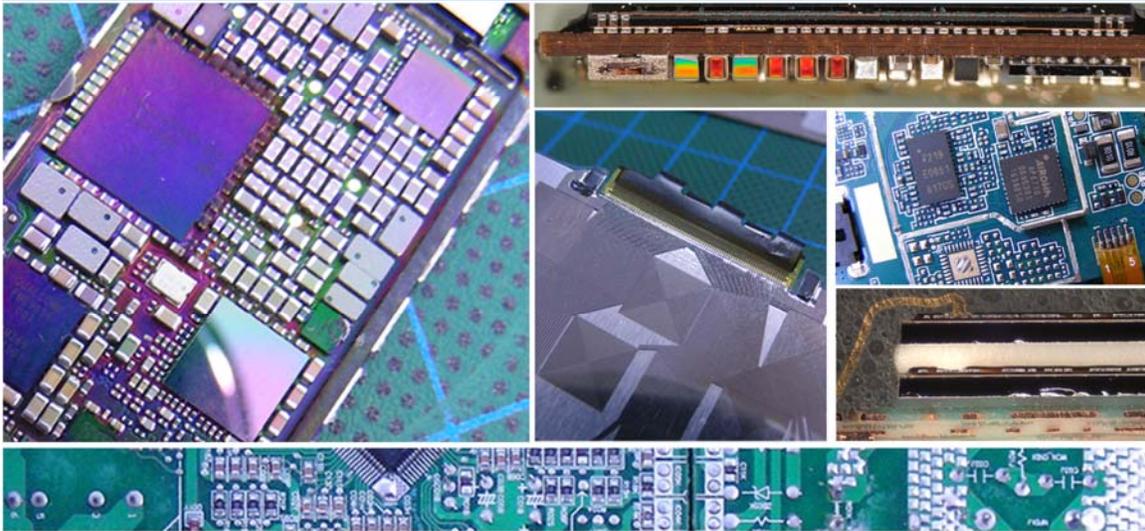
FIRST QUARTER • MAY 2021



- The forty leading PCB suppliers, which account for over one-half of industry sales, reported aggregate revenue increases of 29.9% in Q1 2021 over Q1 2020. Compared to Q4 2020, aggregated Q1 2021 revenues did show typical seasonality with a 14.7% decline.
- Altogether, the PCB market is estimated to have reached \$17.8Bn in Q1 2021 – down from Q4 2020, but up strongly from Q1 2020 and also from Q1 2019.
- Prismark's revised forecast for 2021 calls for PCB sales to grow by 14.0%, driven by the widespread economic recovery as the pandemic is controlled and pent-up consumer demand results in strong consumption.
- Unusually for the PCB industry, all PCB segments and all regions are expected to grow very strongly in 2021 compared to 2020.
- In this report:
  - An update on the pandemic and vaccination developments and their impact on the global economy, electronics industry, and PCB market.
  - Comprehensive data and analysis of the PCB market, showing Prismark's final estimates for 2020, and a forecast for 2021 and 2025 by PCB technology and region of production.
  - A detailed discussion of the major trends in automotive electronics, and how they shape the PCB market, in particular the multilayer market.

# THE PRINTED CIRCUIT REPORT

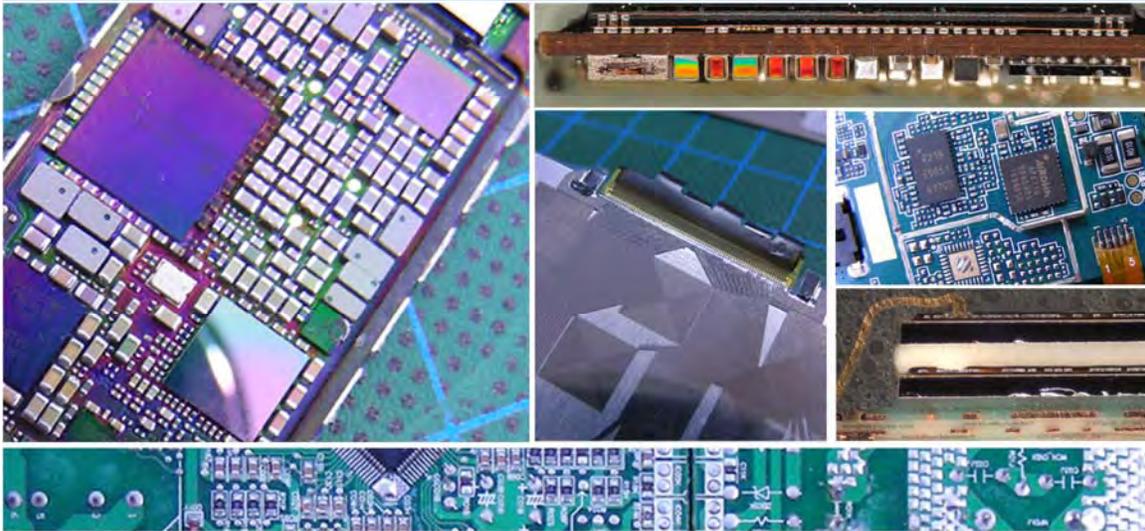
FOURTH QUARTER • FEBRUARY 2021



- The forty leading PCB suppliers, which account for over one-half of industry sales, reported aggregate revenue increases of 9.8% in 2020 over 2019.
- In spite of the ongoing pandemic, which resulted in a 16% QoQ decline in Q1 2020, the global PCB market rebounded and grew by 6.4% in 2020 over 2019. This was driven primarily by the demand for computing equipment, which drove sales for advanced package substrates in particular. The HDI and high-layer multilayer PCB segments also performed very well.
- Prismark's preliminary forecast for 2021 calls for PCB sales to grow by 8.6%, driven by the widespread economic recovery as the pandemic is controlled.
- This report provides:
  - An update on the pandemic and vaccination developments and their impact on the global economy, electronics industry, and PCB market.
  - Comprehensive data and analysis of the PCB market, showing Prismark's revised forecast for 2020, and a preliminary forecast for 2021, and 2025 by PCB technology and region of production.
  - A detailed discussion of major developments in advanced package substrates, particularly FCBGA, SiP, and AiP.

# THE PRINTED CIRCUIT REPORT

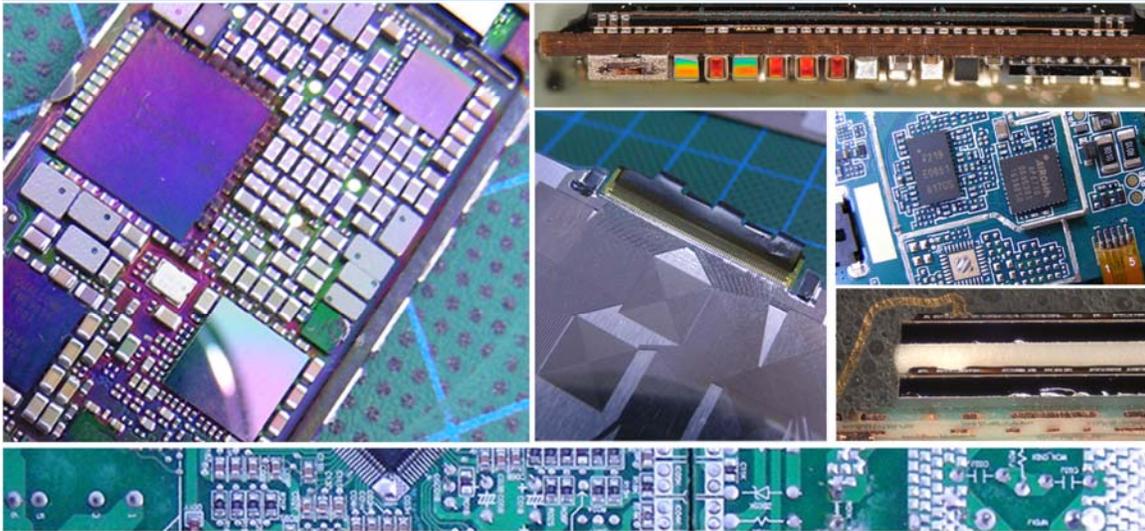
THIRD QUARTER • NOVEMBER 2020



- The forty leading PCB suppliers, which account for over one-half of industry sales, reported aggregate revenue increases of 1.5% in Q3 2020 over Q3 2019, and 5.5% YTD 2020 over 2019.
- In the midst of a pandemic, the PCB market has performed surprisingly well. Even though the market declined by 16% QoQ in Q1, it rebounded by 8% and 12% QoQ, respectively in Q2 and Q3. For the fourth quarter, Prismark expects 5% growth QoQ.
- Prismark has revised its forecast for the PCB market, and is now expecting a growth of 4.4% in 2020 over 2019. This growth is driven mostly by the package substrate segment (23.2% growth), but the HDI segment is also expected to grow well (6.3% growth).
- This report provides:
  - An update on the pandemic, recent medical developments and their impact on the global economy, electronics industry and PCB market.
  - Comprehensive data and analysis of the PCB market, showing Prismark's revised forecast for 2020, as well as our longer-term forecast for 2024 by PCB technology and region of production.
  - A detailed discussion of major developments in printed circuit boards due to the integration of sub-6GHz and mmWave 5G in smartphones. Furthermore, a review of the HDI market.

# THE PRINTED CIRCUIT REPORT

SECOND QUARTER • AUGUST 2020



- The forty leading PCB suppliers, which account for over one-half of industry sales, reported aggregate revenue increases of 11.5% in Q2 2020 over Q2 2019.
- The first half of 2020 has been surprisingly positive for the PCB market, for a number of reasons discussed in this report. Prismark expects the third quarter to decline YoY, and the fourth quarter to be flat YoY.
- Prismark has revised its forecast for the PCB market, and is now expecting a growth of 0.3% in 2020 over 2019. This growth is very lopsided, however, and driven almost exclusively by the strong demand for package substrates.
- This report provides:
  - An update on Prismark’s assessment of the coronavirus impact on the global electronics industry, including the PCB market.
  - Comprehensive data and analysis of the PCB market, showing Prismark’s revised forecast for 2020, as well as our longer-term forecast for 2024 by PCB technology and region of production.
  - A detailed discussion of major technology and market developments of flexible circuits, with a particular focus on rigid-flex circuits.



*CONSULTANTS TO THE ELECTRONICS INDUSTRY  
BUSINESS OPPORTUNITY FROM TECHNOLOGY AND  
MARKET CHANGES*

**PRISMARK PARTNERS LLC**

*This material is © Prismark Partners LLC*

130 Main Street, Cold Spring Harbor, NY 11724 USA • Telephone: 631-367-9187 • Fax: 631-367-9223 • e-mail: [partners@prismark.com](mailto:partners@prismark.com)

Prismark Asia, 8F., No. 96, Guangfu N. Road, Taipei 105, TAIWAN • Telephone: 886-2-25779697 • Fax: 886-2-25701230

Visit our website at **[www.prismark.com](http://www.prismark.com)**