

CONNECTIVITY

Enabling new functions & designs

Henkel Investor & Analyst Day 2019

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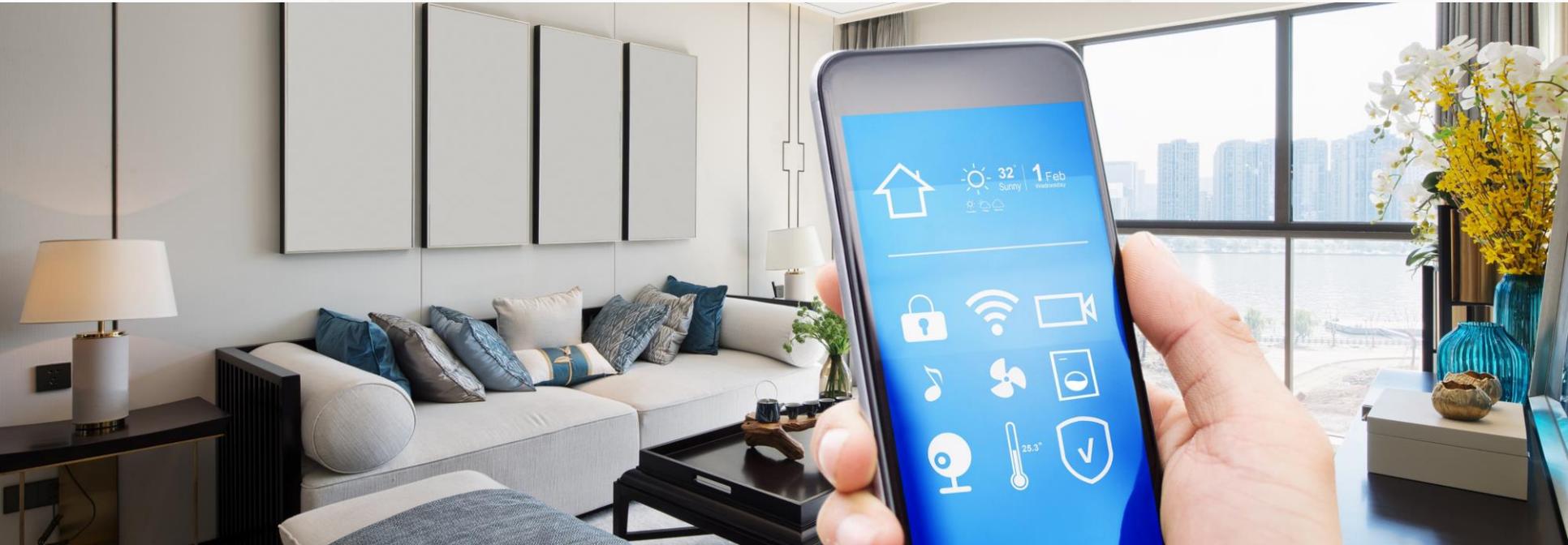
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Connectivity: the internet of things



Up to today: fun and convenience



Starting now: dependence and safety



An aerial night view of a city, likely New York City, featuring prominent skyscrapers like the Empire State Building and the Freedom Tower. The city is illuminated with lights, and a network of white lines and nodes is overlaid on the scene, symbolizing connectivity. A white rectangular box is positioned in the upper left corner, containing the text "The fully connected future!".

The fully connected future!



The fully connected future!

THE INFLECTION POINT IS NOW!



The fully connected future!

SIGNIFICANT INCREMENTAL MARKET OPPORTUNITY

HIGHLY PROFITABLE WITH >10% CAGR TO 2025

Realizing the connected future

Smart devices



Infrastructure

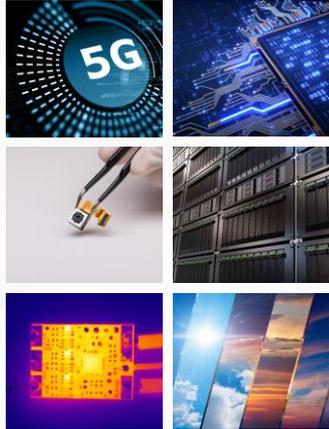


Storage & processing



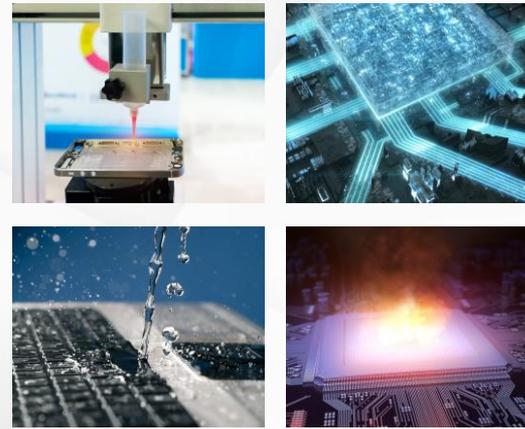
Henkel: enabling the connectivity evolution

Challenges



- High data speeds
- High processing speeds
- Miniaturization
- High density
- Heat dissipation
- Reliability

Our solutions



- Bonding
- Connecting
- Protecting
- Thermal management

> Material solutions & know-how to help create the connected future

Smart devices: autonomous connectivity

30 billion connected devices today, growing to 75 billion by 2025

Challenges



High data speeds



Miniaturization



Reliability

Our position & solutions

#1 in mobile phone assembly

Increasing applications in mobile and expanding to other devices

New material solutions for:

- Interference shielding
- High-precision bonding
- Ruggedization

Sample enabling solution

Shielding solutions for device antenna modules



> Expanding leading position in mobile phones and growing with smart devices

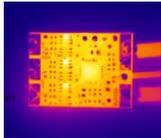
Infrastructure: ubiquitous connectivity

20 million 5G cells by 2025, enabling 100x faster cellular communication

Challenges



High data speeds



Heat dissipation



Reliability

Our position & solutions

5G creates new challenges, requiring high-impact solutions

Joint development with major infrastructure suppliers

High value solutions for:

- Data transmission efficiency
- Thermal management
- Protection

Sample enabling solution

Thermal management materials for 5G base station



> Solving 5G challenges to build a strong position for growth with infrastructure

Storage & processing: big data in an instance

By 2025, equivalent of 200 million DVDs of data is generated daily

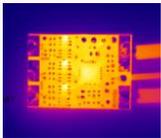
Challenges



High processing speeds



High density



Heat dissipation

Our position & solutions

Shaping the future of storage by co-creating new designs

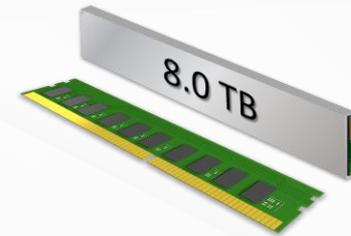
Joint development with storage & processing market leaders

Novel material solutions for:

- Multi-layer memory
- High-precision assembly
- Thermal management

Sample enabling solution

Thermal management for new Solid State Drive (SSD)

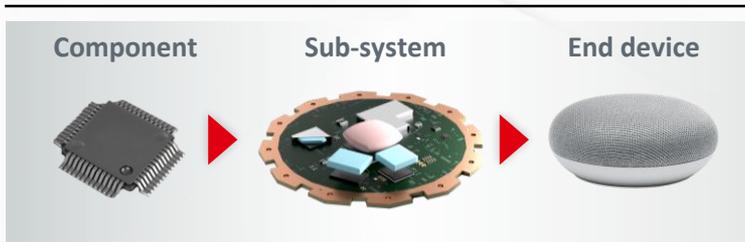


> Innovating on new solutions with market leaders to grow with storage & processing

Unique market insight & focused innovation

Our competitive advantage

Deep and broad market coverage



- Only specialty solutions supplier to serve the whole assembly value chain
- Unparalleled view of entire market

Translating insight into solutions through innovation



- Unmatched application know-how and engineering capabilities
- Leveraging broadest technology portfolio in the industry for targeted solutions

> Able to predict and respond to industry trends with focused innovation

Long-standing partnerships

Our competitive advantage

- Over 30 years of cultivated customer partnerships
- Engaged with industry leaders across smart devices, infrastructure, and storage & processing
- Established reputation as a reliable and collaborative material solutions provider



> Partner of choice for connectivity pioneers seeking material solutions



WE ARE THE SOLUTION PROVIDER
FOR THE CONNECTED FUTURE

PARTNERED WITH INDUSTRY LEADERS

INNOVATING TO SOLVE THE CHALLENGES