

AMOLED Components & Material Market Track

- 1Q19 Data Tables

> Sales Performance

Sales Performance of Components & Material
Summary_Quarterly
Components & Material Market Sales
Performance_Quarterly
Components & Material Supply
Volume_Quarterly
Average Sales Price of Components &
Materials

> Forecast

Components & Materials Market Sales
Forecast Summary
Components & Materials Market Sales
Forecast
Components & Materials Market Usage
Forecast

■ Sales Performance of Components & Material Summary_Quarterly

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- Total Sales

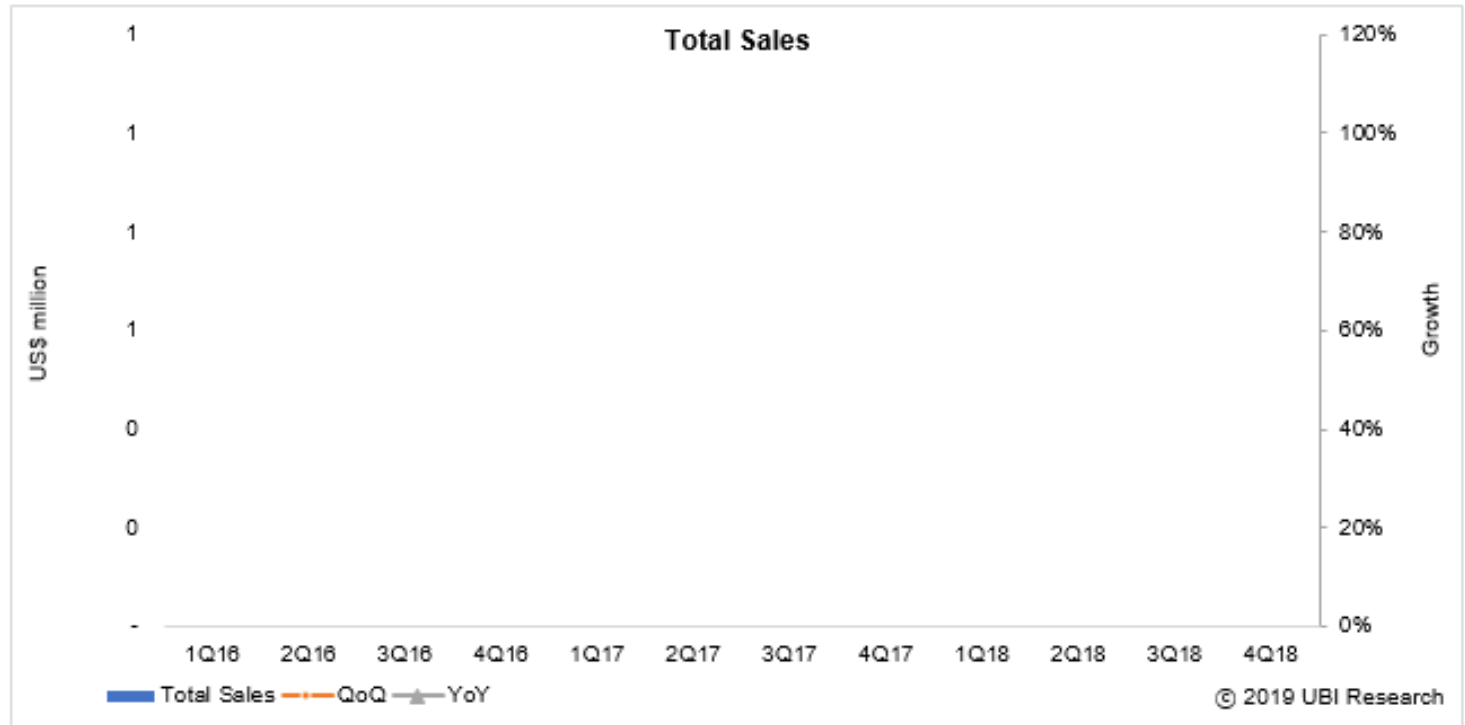
** Market of Key 18 components for OLED*

<Image Example>

> Total Sales

(US\$ million)

| | 1Q16 | 2Q16 | 3Q16 | 4Q16 | 1Q17 | 2Q17 | 3Q17 | 4Q17 | 1Q18 | 2Q18 | 3Q18 | 4Q18 |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Total Sales | | | | | | | | | | | | |
| QoQ | | | | | | | | | | | | |
| YoY | | | | | | | | | | | | |



■ Components & Material Market Sales Performance_Quarterly

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- Sales By Components & Material and the Market Share
- Sales by Company and the Market Share
- Sales by Application and the Market Share

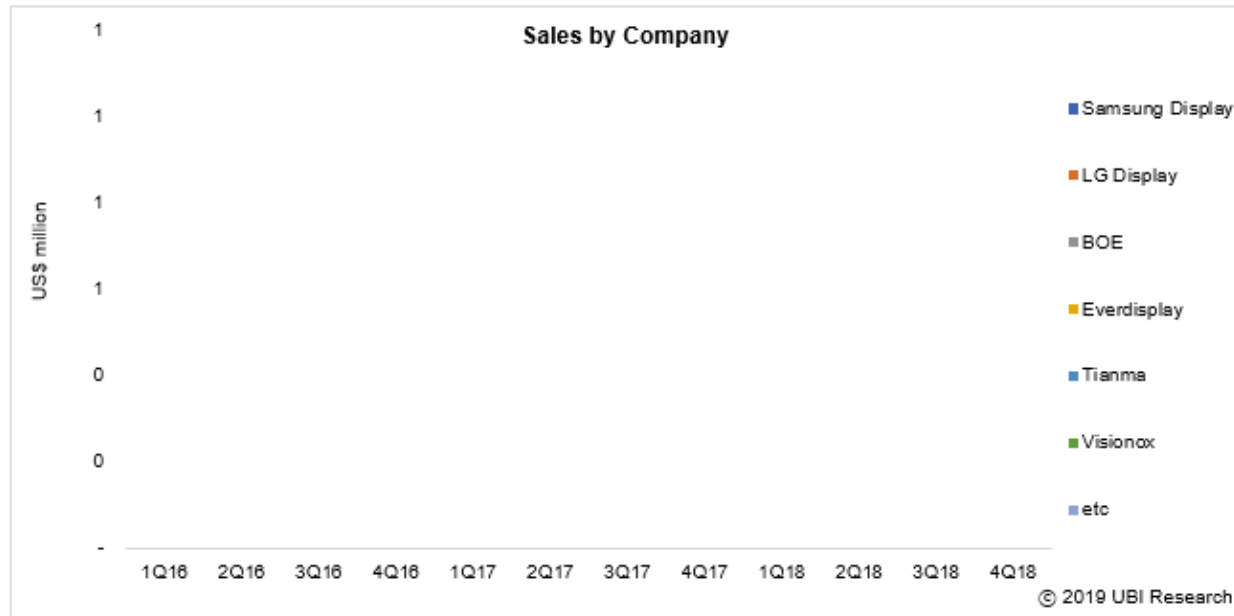
** Market of Key 18 components for OLED*

<Image Example>

> Sales by Company

(US\$ million)

| Company | 1Q16 | 2Q16 | 3Q16 | 4Q16 | 1Q17 | 2Q17 | 3Q17 | 4Q17 | 1Q18 | 2Q18 | 3Q18 | 4Q18 |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Samsung Display | | | | | | | | | | | | |
| LG Display | | | | | | | | | | | | |
| BOE | | | | | | | | | | | | |
| Everdisplay | | | | | | | | | | | | |
| Tianma | | | | | | | | | | | | |
| Visionox | | | | | | | | | | | | |
| etc | | | | | | | | | | | | |
| Total | | | | | | | | | | | | |



■ Components & Materials Market Sales Forecast Summary

<Contents>

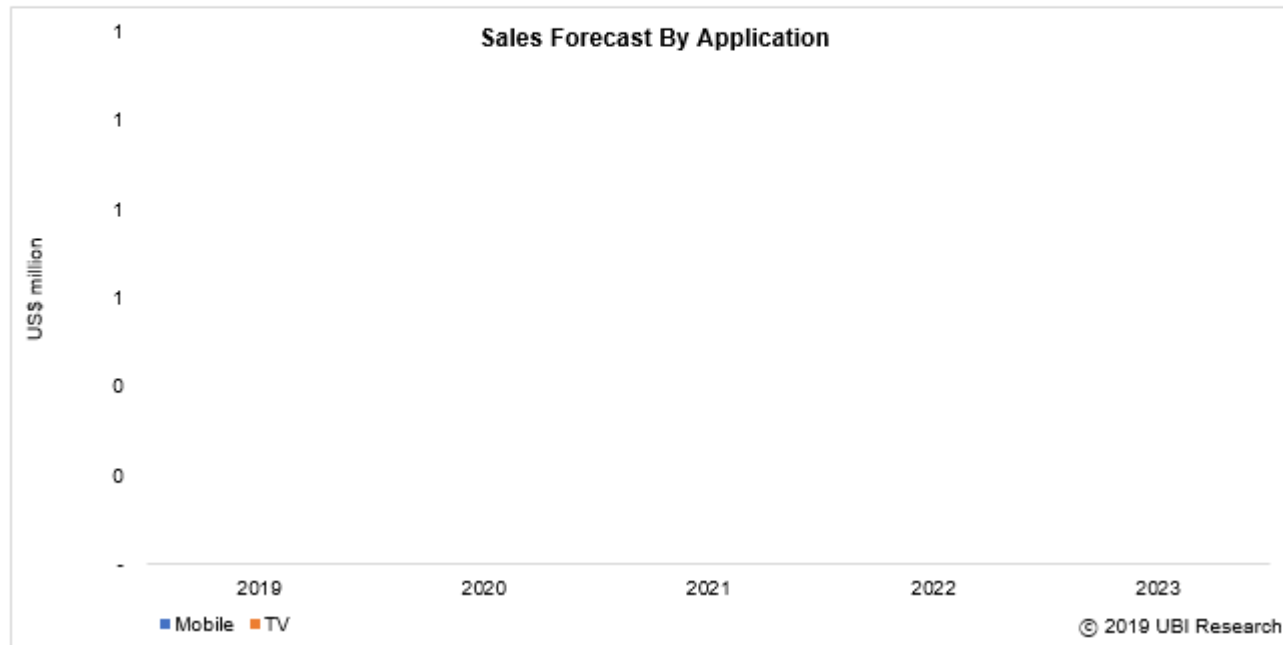
- Total Sales Forecast
- Sales Forecast By Application

<Image Example>

> Sales Forecast By Application

(US\$ million)

| Application | 2019 | 2020 | 2021 | 2022 | 2023 |
|-------------|------|------|------|------|------|
| Mobile | | | | | |
| TV | | | | | |
| Total | | | | | |



■ Components & Materials Market Sales Forecast

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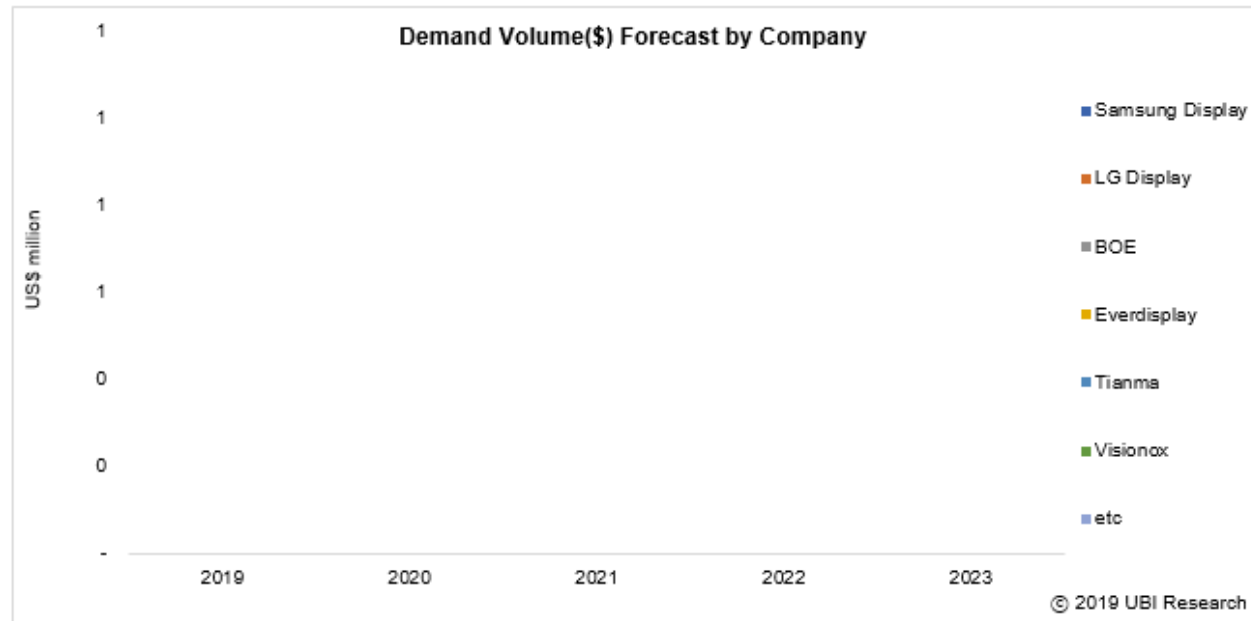
- Sales and the Market Share Forecast of Components & Material
- Demand Volume(\$) and the Market Share Forecast by Company
- Sales and the Market Share Forecast by Application
- Sales and the Market Share Forecast by Substrate Type

** Market of Key 19 components for OLED*

<Image Example>

> Demand Volume(\$) Forecast by Company (US\$ million)

| Company | 2019 | 2020 | 2021 | 2022 | 2023 |
|-----------------|------|------|------|------|------|
| Samsung Display | | | | | |
| LG Display | | | | | |
| BOE | | | | | |
| Everdisplay | | | | | |
| Tianma | | | | | |
| Visionox | | | | | |
| etc | | | | | |
| Total | | | | | |



■ Components & Materials Market Usage Forecast

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- Usage and the Market Share Forecast of Components & Material

** Market of Key 19 components for OLED*

<Image Example>

> Usage and the Market Share Forecast of Components & Material

| Components & Material | | Unit | 2019 | 2020 | 2021 | 2022 | 2023 |
|-----------------------|--------------------------|---------------------|------|------|------|------|------|
| Substrate | Substrate glass | 1,000m ^l | | | | | |
| | Carrier glass | 1,000m ^l | | | | | |
| | Polyimide | Ton | | | | | |
| TFT | PSPI | Ton | | | | | |
| Encapsulation | Frit glass | Ton | | | | | |
| | Encapsulation glass | 1,000m ^l | | | | | |
| | Thin film encapsulation | Ton | | | | | |
| | Metal Foil & FSA | 1,000m ^l | | | | | |
| Touch sensor | On-cell touch | 1,000m ^l | | | | | |
| | Add-on Touch | 1,000m ^l | | | | | |
| | Over coat(on-cell touch) | Ton | | | | | |
| Polarizer | Polarizer | 1,000m ^l | | | | | |
| Adhesive | OCR | Ton | | | | | |
| | OCA | 1,000m ^l | | | | | |
| Cover window | 2D & 3D glass | M EA | | | | | |
| | Colorless polyimide | 1,000m ^l | | | | | |
| Module | Driver IC & COF | M EA | | | | | |
| | Complex sheet | 1,000m ^l | | | | | |
| | Process Film | 1,000m ^l | | | | | |