

# Ivent Solutions Market Trend Update

## October 2018

### DLC TFT Displays with NO MOQ!

The Ivent flagship TFT LCD provider, DLC Display is now offering a range of TFT's with no MOQ. Traditionally TFT products have had high MOQ's ranging anywhere from 1Kpcs up to over 10Kpcs. Additionally TFT's are susceptible to short production lifespans which ultimately increases the design investment for customers. However as a solution to these challenges DLC are offering a large range of TFT sized from 2.4" through to 15" that have no minimum order quantity and are also guaranteed to have long term availability. Some of these displays are also provided with resistive touch and all offer a range of interfaces (CPU, RGB, LVDS). DLC are commonly incorporating the state of the art IPS technology into their displays now and the results are excellent. Recent design work for a number of Ivent customers has provided for very impressive contrast performance, brightness and almost 360 degree viewing angles. Please contact Ivent today to discuss your TFT display projects! We not only offer this excellent range of DLC products but can assist with your hardware and software design requirements as well.



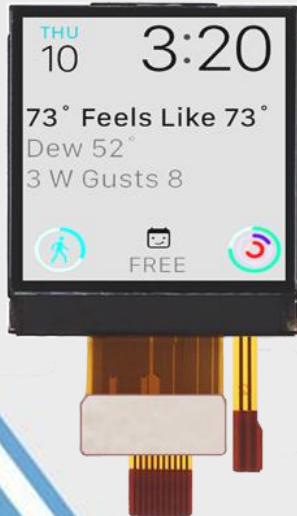
### Shares in Chip-Makers Tumble after China "spy" Reports

Shares in Chinese hardware companies plunged on Friday led by computer maker Lenovo, after a report on Thursday evening claimed that spies had used thousands of microchips to infiltrate the IT systems of US companies. Bloomberg claimed there had been a major "supply chain hack" of around 30 companies as well as US government agencies by the Chinese People's Liberation Army. The news agency said Chinese spies had placed the malicious computer chips in the hardware used to make servers in the US. It claimed that Amazon and Apple were among the companies affected, and were cooperating with a wider US government investigation into the chips, led by the FBI. Both Apple and Amazon denied the report... However, the report caused ripples across Asia, with shares in a number of Chinese hardware companies slipping over the course of Friday. Hong Kong-listed telecommunications company ZTE closed down 11 per cent yesterday and computer maker Lenovo ended 15 per cent lower, as analysts warned the allegations may dampen demand for Chinese-manufactured goods. Neither ZTE nor Lenovo were named by Bloomberg. ZTE had already become embroiled this year, after it was banned from doing business with US suppliers, having pleaded guilty to bypassing US sanctions against Iran and North Korea. ZTE finally settled, having sacked its entire board and paid a USD1b fine. The measures were seen as a reflection of Donald Trump's tougher stance on China. This week, Mike Pence, US vice president, accused Beijing of employing a "whole-of-government approach, using political, economic, and military tools, as well as propaganda, to advance its influence and benefit its interests". Interesting times for our industry to be aware of.





DLC-Display Specialist

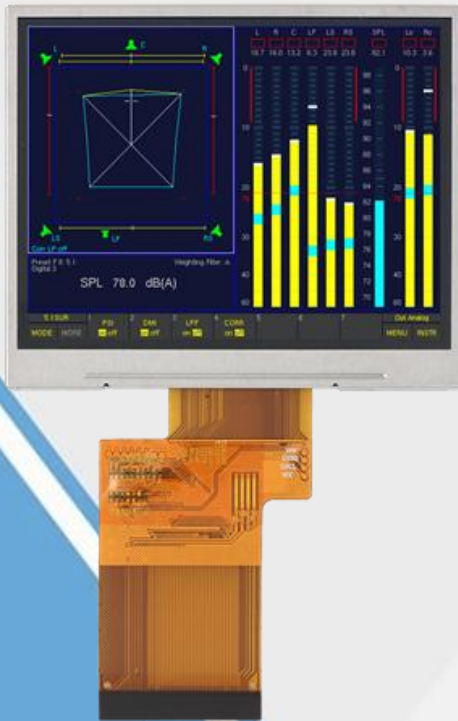


## DLC0128AYR03ST-1

| Item         | Contents                                   | Unit              |
|--------------|--|-------------------|
| Size         | 1.28                                       | inch              |
| Resolution   | 176x(RGB)x176                              | \                 |
| Interface    | SPI  | \                 |
| Display Mode | <b>Tansflective</b>                        | \                 |
| Active Area  | 23.02 x 23.02                              | mm                |
| Outline      | 26.02 x 29.50 x 1.47                       | mm                |
| Brightness   | 45   | cd/m <sup>2</sup> |
| Remark       | Sunlight readable<br>Low power consumption |                   |



DLC-Display Specialist



## DLC0350ACP06RF-1

| Item         | Contents                      | Unit              |
|--------------|-------------------------------|-------------------|
| Size         | 3.5                           | inch              |
| Resolution   | 320x(RGB)x240                 | \                 |
| Interface    | RGB                           | \                 |
| Display Mode | <b>IPS</b>                    | \                 |
| Active Area  | 70.08 x 52.56                 | mm                |
| Outline      | 72.9 x 63.9 x 4.2             | mm                |
| Brightness   | 350                           | cd/m <sup>2</sup> |
| Remark       | Long term available<br>No MOQ |                   |



DLC-Display Specialist



## DLC0400FZP08RF-1

| Item         | Contents             | Unit              |
|--------------|----------------------|-------------------|
| Size         | 4.0                  | inch              |
| Resolution   | 720x(RGB)x720        | \                 |
| Interface    | RGB                  | \                 |
| Display Mode | <b>IPS</b>           | \                 |
| Active Area  | 71.93 x 71.93        | mm                |
| Outline      | 74.83 x 78.98 x 1.46 | mm                |
| Brightness   | 350                  | cd/m <sup>2</sup> |
| Remark       |                      |                   |



**DLC-Display Specialist**



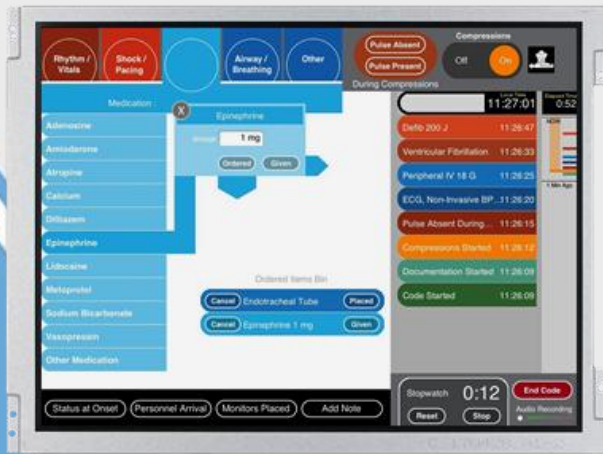
## DLC0430DCP10RF-2

| Item         | Contents                      | Unit              |
|--------------|-------------------------------|-------------------|
| Size         | 4.3                           | inch              |
| Resolution   | 800x(RGB)x480                 | \                 |
| Interface    | RGB                           | \                 |
| Display Mode | <b>IPS</b>                    | \                 |
| Active Area  | 95.04 x 53.86                 | mm                |
| Outline      | 105.5 x 67.2 x 2.9            | mm                |
| Brightness   | 400                           | cd/m <sup>2</sup> |
| Remark       | Long term available<br>No MOQ |                   |





DLC-Display Specialist



## DLC1040BDM24LT-1

| Item         | Contents                            | Unit              |
|--------------|-------------------------------------|-------------------|
| Size         | 10.4                                | inch              |
| Resolution   | 800x(RGB)x600                       | \                 |
| Interface    | LVDS                                | \                 |
| Display Mode | TN                                  | \                 |
| Active Area  | 211.20 x 158.40                     | mm                |
| Outline      | 236.0 x 176.9 x 5.6                 | mm                |
| Brightness   | 350                                 | cd/m <sup>2</sup> |
| Remark       | Long term available with LED driver |                   |

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**NZD versus AUD - AU\$0.910 vs NZ\$1.00**



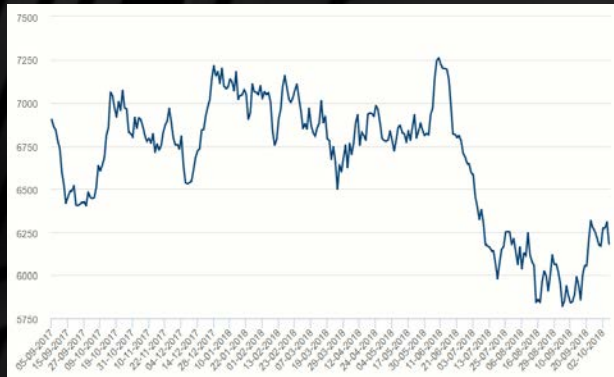
**NZD versus USD - US\$0.645 vs NZ\$1.00**



**NZD versus EUR - EU\$0.560 vs. NZ\$1.00**



**Copper - USD6150 / tonne**



**Lead - USD1950 / tonne**



**Nickel - USD12400 / tonne**

