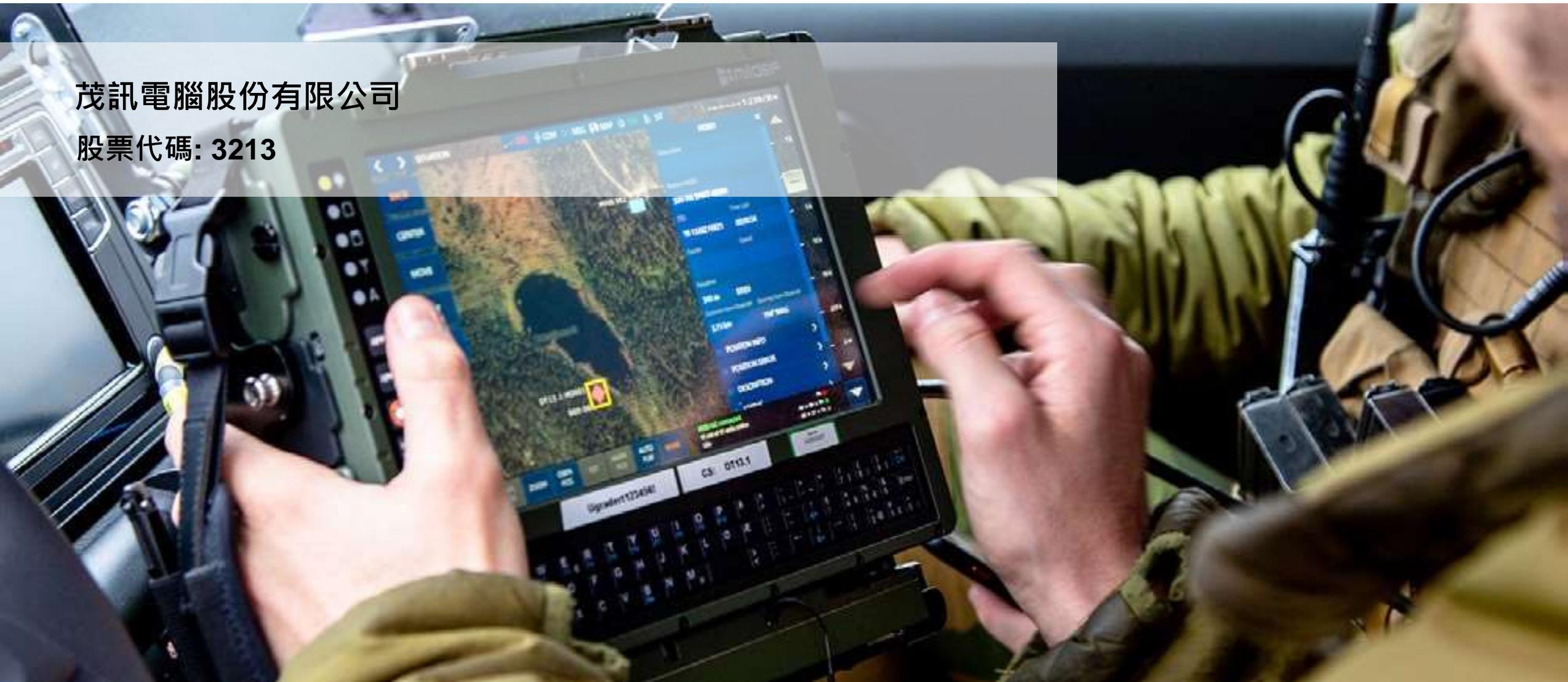


茂訊電腦股份有限公司

股票代碼: 3213



# 全強固型電子產品的客製方案

在最嚴峻的環境下提高通訊



# 通路事業部

最專業的筆電銷售公司



# 公司簡介



茂訊電腦成立於 1990 年，以 MilDef 為品牌，銷售於全球，擁有國際化的經營團隊，在歐美各國及亞太設有據點，主要從事攜帶式強固型電腦以及電子產品的設計、研發和製造，提升在極端環境下的可靠性、堅固性以及高性能。

我們提供包括軍工與礦業所需，能在惡劣環境中節省空間並使用所有功能。我們致力於研發並符合客戶專業需求的客製化，實現顧客要求的特殊規格及電子設備。

2004年掛牌上櫃，股號:3213，擁有穩固的財報並**100%在台灣製造生產**。



2021年 營業收益  
**US\$100M**

2021年 淨利  
**\$22M**

2021年 研發開發  
**\$2.2M**



**1990年**  
創立



**300+**  
全球員工



**2 (台灣)**  
製造工廠



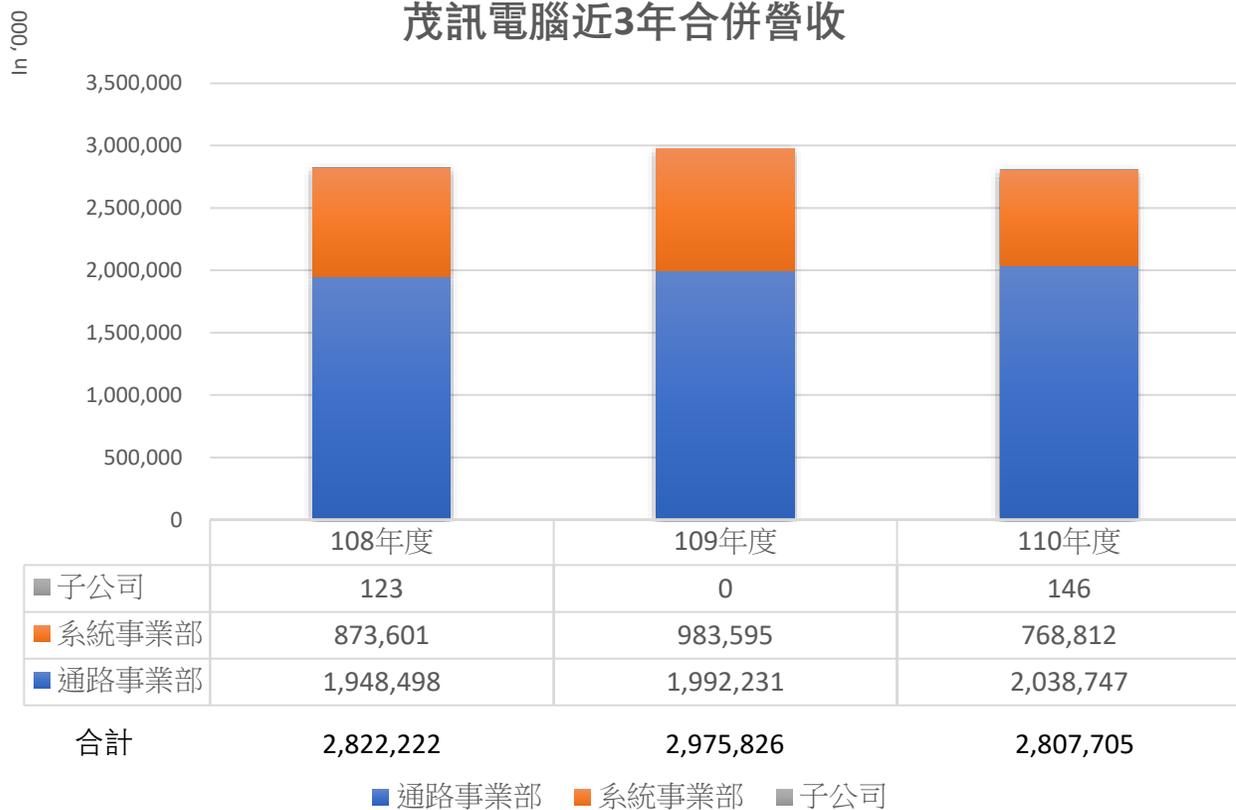
**5**  
全球合作夥伴

# 茂訊電腦 - 穩健的財務

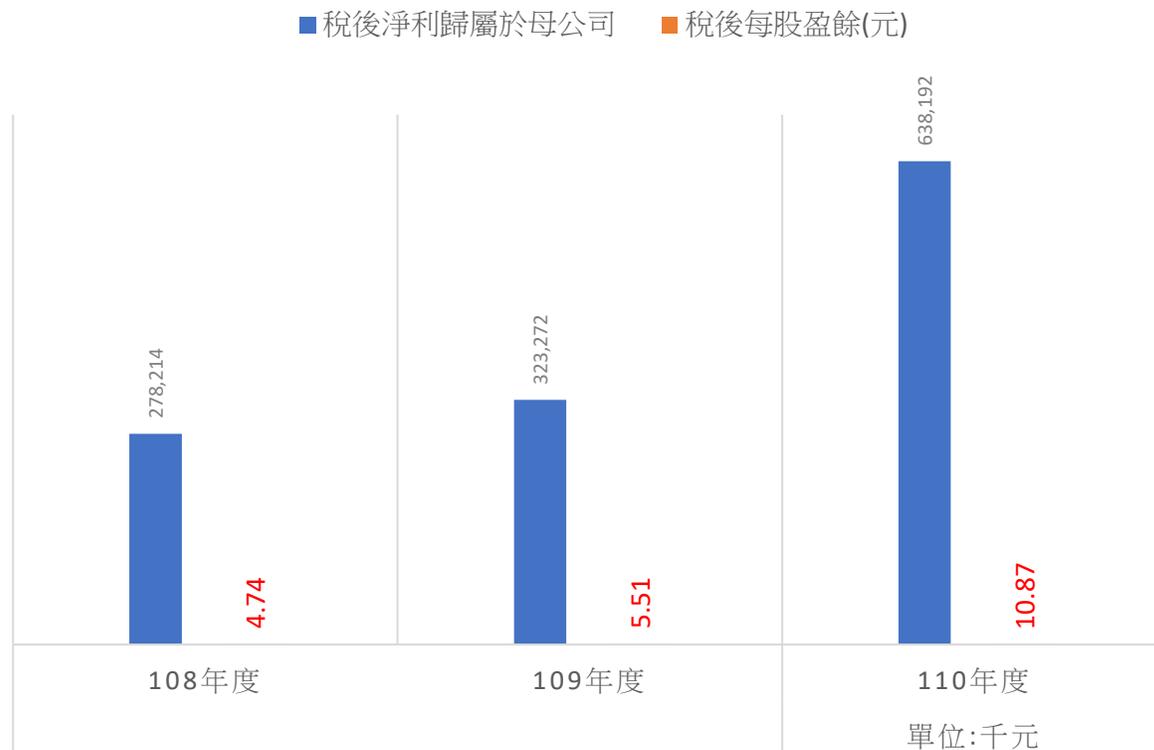


自 1990 年成立以來，茂訊電腦一直將強勁的財務健康和穩定放在首位。公司審慎規避金融風險，能夠適應市場變化。茂訊電腦於 2004 年在台灣證券櫃檯買賣中心上櫃

### 茂訊電腦近3年合併營收



### 獲利



# 通路事業部

最專業的筆電銷售公司



## 通路事業處

設立日期：1999年

營業項目：筆記型電腦零售及維修服務

門市店數：18家

門市據點：全省電腦商圈（如光華商場、Nova資訊廣場）

（台北：7 桃園：1 中壢：1 新竹：1 台中：2 台南：2 高雄：4）

員工人數：128人



## 產業及市場狀況 - 通路事業處

### 競爭優勢

- **管銷費用低於同業**
  - 優異資訊管理系統：資訊系統自行開發，並依實際需求量身訂做
  - 良好存貨管理（存貨週轉天數31.36天）。
- **平均單價(ASP)高於同業**
  - 專業經營團隊：業務人員專業推薦，銷售高毛利及附加週邊產品。
  - 毛利額亦逐年成長。
- **全國最大筆電連鎖專賣門市**
  - 銷售量大，具價格談判優勢。
- **客戶滿意度高**
  - 提供會員即時專業諮詢，會員人數已突破26萬人。(268,842)

茂訊筆電通路

市佔率：16.13%

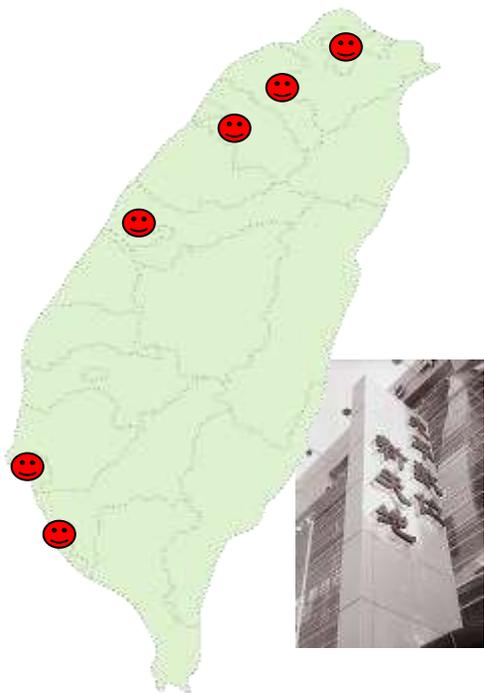
資訊連鎖通路排名：第1名  
(綜合各品牌內部資料)。



# 通路事業處 - 18處服務據點提供筆電全方位服務



- 台北：7
- 桃園：1
- 中壢：1
- 新竹：1
- 台中：2
- 台南：2
- 高雄：4



## 全強固型電子產品的客製方案

在最嚴峻的環境下提高通訊

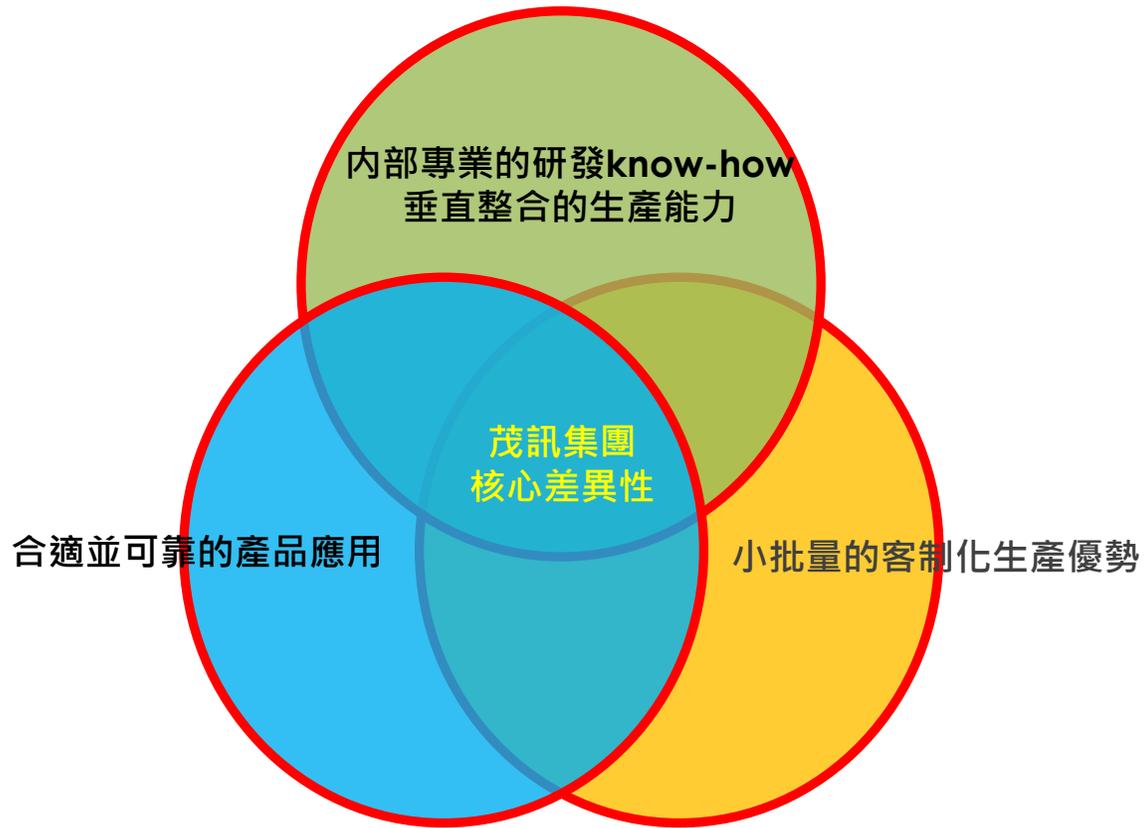


# 茂訊集團 - 據點與製造

強大的全球服務支援  
在軍工業界擁有20年經驗



## 茂訊電腦 - 核心優勢與差異性



茂訊集團提供一系列產品的服務組合，包括完整的強固型電子設備、軟體以及服務。

我司在客製強固型數位電子設備的生意，就是基於手持型裝置、平板電腦、筆記型電腦和周邊配件，以便在最嚴峻的環境下使用。

財務穩健, 茂訊是唯一有一條龍服務的廠商，從接案討論、設計、生產、品質管理、交貨以及售後服務都有專人為您服務。

茂訊的優勢在於內部建立一套完整及專業的服務流程，為我們的顧客量身打造符合需求與可靠度的產品設計。茂訊是唯一可以提供少量訂製的全強固行電子供應商。

## 為礦業與軍防客製化強固型產品



我們的**礦業解決方案** 幫助客戶在最嚴酷地下環境，仍然能與外界有良好的溝通，並為採礦業的強固型電子產品立下新的標竿。



我們的**軍工解決方案** 達到軍規標準認證，為能在最苛刻的空中、海上及陸地都依然能有高效能而建立。



讓我們的客戶可以依靠科技而不受阻礙是非常必要的。而堅固性、可靠性及可用性便是最重要的關鍵。



## 為堅固耐用而生

Customized, purpose-built, tested for fit-for-purpose according to the most demanding specifications



PRODUCTS

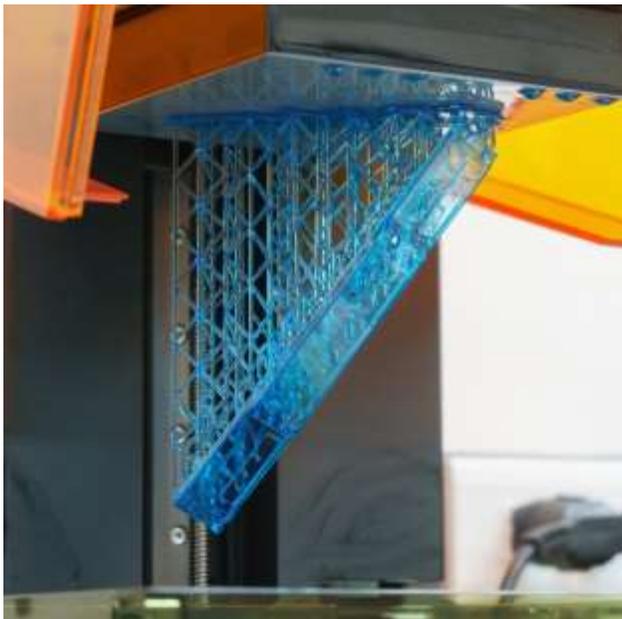
## 產品訂製

我們的優勢在於為惡劣的環境提供專屬訂製產品，更重要的是同時具備可靠度及對抗外在的影響（例如：溫度、震動、雨水、灰塵等）

如果您無法找到所想要的產品，我們會針對您的需求設計並打造屬於您的產品。

我們所有的產品都是客製化。若您對特殊接口, 輸出輸入端口, I/O, 或其他特殊規格參數 有獨特的要求，我們可以實現您的需求。

# 一套完整及專業的內部製造流程



Turnkey



## 產品資訊

可攜式手持裝置、平板與筆記型電腦- 為嚴峻的環境創造、測試及使用

# 產品

在最嚴峻的環境下依舊維持穩健的高效能



# 產品

## 全方位的產品線

我們多元的提供針對在惡劣環境中使用的強固型電腦與配件產品線

## 移動解決方案

確保我們的產品能在手持及車載移動的狀態下，也能保持高效能的使用。我們專為嚴酷的情況設計並滿足顧客的客製化需求。

## 滿足您的特殊需求

茂訊電腦是一個靈活並以服務為中心的公司。無論是小量的量身訂做或是上百件的數量，我們都可以快速的訂製符合標準的產品。可以修改計算機和更改設備連接器以適應您的整個系統。此外，我們的配件提高了我們計算機設備的性能。同時它們是與我們的產品緊密結合而設計的。

我們擁有最優秀的研發團隊，提供用戶最卓越的產品和技術，為我們的顧客設計並製造客製化電腦。我們有自己的電磁波干擾量測設備(EMI)測試成品及驗證確保其性能。

## 符合標準與軍用規格

所有產品皆通過國際標準測試，並提供我們的強固設備符合嚴格的軍用標準，以進一步確保其在較長的設備生命週期中的高性能。提供MIL-STD-810G的強固能力，並有能力提供具備MIL-STD-461F標準。



# 全強固型可攜式手持裝置與平板電腦

## DE13

**Specifications:**  
 CPU: Intel® Core™ i1-705  
 IM Cache: up to 500KB  
 Display: 7" 1280 x 800, LED backlit  
 Display brightness: 800 nits  
 Touch screen: Resistive multi-touch  
 Memory: 8GB DDR3 16GBM-P  
 Storage: M.2 2280 M-key SATA III SSD  
 Graphics: Intel® HD Graphics G20  
 Battery: 7.6V Li-Ion (8400mAh)  
**Sensors:** Light sensor  
 Audio: HD Audio and mono speaker, embedded digital mic  
 Operating System: Windows 10  
**Temperature operational:** -20°C to +60°C (-4°F to +142°F)  
**Temperature storage:** -60°C to +70°C (-76°F to +158°F)  
**Dimensions (W x D x H):** 200 x 184 x 13.5 mm  
 (7.91 x 7.24 x 0.53 in) w/ rubber bumper  
**Weight:** 1.5 kg (3.3 lb) w/ battery  
**Compliant to:** CE, FCC, UKCA, WEEE, REACH, RoHS2.0, PFC, MIL-STD-883C and MIL-STD-883G



**Ports and connectors:**  
 1x USB 3.1 Type C  
 1x Docking connector (POGO)  
 1x Ear ANC (right)  
 1x 3-pin DC-in (Fischer)

**Options and accessories:**  
 1x USB 2.0 (Fischer)  
 1x Display Port (Fischer)  
 1x Giga LAN (Fischer)  
 1x Serial RS232 (Fischer)  
 1x Headset (Fischer)  
 WLAN 802.11 a/b/g/n  
 BT 4.2  
 GPS  
 Invisiote mode  
 7FM 2.0  
 -30°C/-22°F Operating Temperature  
 MIL-STD-883C 2nd battery 7.6V Li-Ion (8400mAh)  
 MIL-STD-883G - Ground Navy  
 MIL-STD-883G - Ground Army

## DH8 (available in Q1, 2023)

**Specifications:**  
 CPU: Intel® Atom™ x621E (13M Cache, 30W)  
 Display: 5.7" 1280 x 720, LED backlit  
 Display brightness: 840 nits  
 Touch screen: Resistive multi-touch  
 Memory: Up to 32GB DDR4, 3000 MHz  
 Storage: m.2 2242 SATA III SSD up to 1TB  
 Graphics: Intel® UHD Graphics for 30<sup>th</sup> Gen Intel® Processor  
 Battery: 7.2V/2000mAh x2 (Li-Ion battery, hot-swappable)  
 Audio: HD audio codec and amplifier, stereo speaker 0.5 W  
 Camera: embedded Digital mic  
 Security: TPM2.0  
**Operating System:** Windows 10, 11 and Linux depending on configuration  
**Temperature operational:** -20°C to +60°C (-4°F to +142°F)  
**Temperature storage:** -60°C to +70°C (-76°F to +158°F)  
**Dimensions (W x H x D):** 201 x 99 x 44.3 mm  
 (7.91 x 3.9 x 1.75 inch) w/ bumper  
**Weight:** ~890 g (1.96 lb) w/ battery  
**Compliant to:** CE, FCC, UKCA, WEEE, REACH, RoHS2.0, PFC, MIL-STD-883C and MIL-STD-883G



**Ports and connectors:**  
 1x USB 3.1 Gen 2 Type C  
 1x PCI-E 20x24  
 1x DC-in (4-pin) (12-32 V DC)  
 1x Docking connector (1x USB 2.0, 1x USB2.0 (SV), QMG)

**Options and accessories:**  
 1x Audio & mic (Fischer)  
 1x USB2.0 (Fischer)  
 1x Giga LAN (Fischer)  
 1x RS232 (Fischer)  
 WiFi/BT wireless 5.3 (MIMO, AC1200)  
 GPS (u-blox 7PMM)  
 Multi-battery (Fisher)  
 IP67  
 -30°C/-22°F Operating Temp  
 MIL-STD-883G - Ground Navy  
 MIL-STD-883G - Ground Army

## DF10 (available in Q2, 2023)

**Specifications:**  
 CPU: NVIDIA® RTX 3050 (10W)  
 GPU: GeForce RTX 3050 Quad Core 2.0 GHz  
 Display: 5.7" 120 x 1080, LED backlit  
 Display brightness: 840 nits  
 Touch screen: Resistive multi-touch (2048x1536)  
 Memory: 8GB GDDR6X (16GB), 12GB LPDDR5 (16GB)  
 Graphics: Multi-GPU IEEE MCT (OpenCL 3.0, Vulkan 1.3)  
 Battery: 3.7V/60 mWh (internal), 3.7V/4700mAh (external)  
 Sensors: Magnetism, Accelerometer, Gyro, Proximity & Light  
 Communications: Wi-Fi, BT, GPS (MTR8003)  
 Security: ARM® TrustZone®  
**Operating System:** Android™ 10  
**Temperature operational:** -20°C to +60°C (-4°F to +142°F)  
**Temperature storage:** -60°C to +70°C (-76°F to +158°F)  
**Dimensions (W x H x D):** 180 x 90 x 20 mm (7.0 x 3.54 x 0.79 inch)  
**Weight:** 460 g (1.06 lb) w/ battery  
**Compliant to:** CE, FCC, UKCA, WEEE, REACH, RoHS 2.0, PFC, MIL-STD-883C and MIL-STD-883G



**Ports and connectors:**  
 1x Micro SD  
 1x USB Type C (BCL2 3W/3.5A/4D 9W/3A)

**Options and accessories:**  
 1x USB2.0 (Fischer)  
 1x Mega LAN (Fischer)  
 1x RS232 (Fischer)  
 1x VGA (Fischer)  
 1x Audio (Fischer)  
 Double capacity battery  
 Multi-battery charger  
 -30°C/-22°F Operating Temp  
 MIL-STD-883G - Ground Navy  
 MIL-STD-883G - Ground Army

## DS13

**Specifications:**  
 CPU: Intel® Core™ i1-705  
 IM Cache: up to 500KB  
 Display: 10.7" 1920 x 1200, LED backlit  
 Display brightness: 710 nits  
 Touch screen: Resistive multi-touch screen  
 Memory: 16GB DDR3 8000MHz  
 Storage: mSATA III SSD up to 2TB  
 Sensors: Light sensor, accelerometer, gyroscope, magnetometer/compass  
 Graphics: Intel® HD Graphics G20  
 Battery: 7.6V Li-Ion (4000mAh)  
 Audio: HD Audio and mono speaker, embedded digital mic  
**Operating System:** Windows 10  
**Temperature operational:** -20°C to +60°C (-4°F to +142°F)  
**Temperature storage:** -60°C to +70°C (-76°F to +158°F)  
**Dimensions (W x D x H):** 280 x 190 x 20 mm  
 (11.0 x 7.5 x 0.8 inch) w/ rubber bumper  
**Weight:** 1.89 kg (4.18 lb)  
**Compliant to:** CE, FCC, UKCA, WEEE, REACH, RoHS2.0, PFC (without protection caps), MIL-STD-883C and MIL-STD-883G



**Ports and connectors:**  
 1x RJ45 Giga LAN  
 1x Serial (DB9)  
 1x Mini DisplayPort  
 1x USB 3.0  
 1x Docking connector (POGO)  
 1x Micro SD  
 1x SIM Card Slot  
 1x DC-in 12-32V

**Options and accessories:**  
 1x 802.11 a/b/g/n  
 BT 5.0  
 GPS  
 Invisiote mode  
 NFC sensor  
 1x DisplayPort/DisplayPort/USB3.0  
 1x USB 2.0 (Fischer)  
 1x VGA (Fischer)  
 1x COM (Fischer) (RS232 42 or RS422 485/422 4T)  
 1x Li-Ion (Fischer) 1  
 1x Audio (Fischer)  
 1x Sealed Heatsink (Fischer)  
 7FM 2.0  
 Double capacity battery  
 8.1V Li-Ion (8400mAh)  
 -30°C/-22°F Operating Temperature  
 MIL-STD-883C Ground Navy  
 MIL-STD-883G Ground Army

## DK13

**Specifications:**  
 CPU: Intel® Core™ i1-705  
 IM Cache: up to 500KB  
 Display: 12.1" 1920 x 1080 LED backlit  
 Display brightness: 500 nits  
 Touch screen: Resistive single-touch  
 Memory: Up to 32 GB DDR4 (128 MHz)  
 Storage: Removable M.2 2280 SATA III SSD 256 GB / 512 GB  
 Graphics: Intel® HD Graphics G20  
 Battery: 10.8V Li-Ion (3000mAh)  
**Operating System:** Windows 10  
**Temperature operational:** -20°C to +30°C (-4°F to +122°F)  
**Temperature storage:** -60°C to +70°C (-76°F to +158°F)  
**Dimensions (W x D x H):** 310 x 225 x 34 mm  
 (12.2 x 8.86 x 1.34 in) w/ bumper  
**Weight:** 2.8 kg (6.17 lb) w/ battery  
**Compliant to:** CE, FCC, UKCA, WEEE, REACH, WHUK, RoHS2.0, PFC (without protection caps), MIL-STD-883C and MIL-STD-883G



**Ports and connectors:**  
 1x Serial (DB9)  
 1x COM1 (RS232/422/485)  
 1x USB 3.1 Type A  
 1x RJ45 Giga LAN  
 1x Docking connector (120 pins)  
 1x MIL-DC-in 12-32 V  
 1x 2nd battery connector  
 MultiBay w/ 1x ExpressCard Slot & 1x SIM Card Slot - Card slot

**Options and accessories:**  
 Wi-Fi/BT 5.0  
 WLAN adapter  
 Docking station (DL R3)  
 Stand for vehicle mounting  
 2nd battery 10.8 V Li-Ion (3000mAh)  
 Night vision  
 TPM 2.0  
 -30°C/-22°F Operating temperature  
 MIL-STD-883C Ground Navy  
 MIL-STD-883G Ground Army

## DR13

**Specifications:**  
 CPU: Intel® Core™ i1-705  
 IM Cache: up to 500KB  
 Display: 8.4" 1024 x 768 LED backlit  
 Display brightness: 750 nits  
 Touch screen: Resistive single-touch  
 Memory: Up to 32 GB DDR4 (2133 MHz)  
 Storage: Removable 2.5" SATA III SSD  
 Graphics: Intel® HD Graphics G20  
 Battery: 10.8V Li-Ion (3000mAh)  
**Operating System:** Windows 10  
**Temperature operational:** -20°C to +30°C (-4°F to +122°F)  
**Temperature storage:** -60°C to +70°C (-76°F to +158°F)  
**Dimensions (W x H x D):** 250 x 190 x 45.2 mm  
 (9.84 x 7.48 x 1.78 in)  
**Weight:** ~2.3 kg (5.07 lb) w/ battery  
**Compliant to:** CE, FCC, UKCA, WEEE, REACH, WHUK, PFC, RoHS2.0, MIL-STD-883C and MIL-STD-883G



**Ports and connectors:**  
 1x Serial (DB9)  
 2x USB 3.1 Type A  
 1x RJ45 Giga LAN  
 1x Docking connector (COM25, USB 2.0, Mx. Speaker)  
 Line-in, VGA, PS2, Fire, Giga LAN  
 1x MIL-DC-in 12-32 V  
 1x 2nd battery connector  
 MultiBay w/ 1x ExpressCard Slot & 1x SIM Card Slot - Card slot

**Options and accessories:**  
 GPS  
 Bluetooth 5.0  
 WLAN adapter  
 Docking Station (DL R3)  
 Stand for vehicle mounting  
 2nd battery 10.8V Li-Ion (3000mAh)  
 Night vision  
 Invisiote mode  
 -30°C/-22°F Operating temperature  
 MIL-STD-883C Ground Navy  
 MIL-STD-883G Ground Army

# 強固型筆記型電腦

## RS13

**Specifications:**  
**CPU:** Intel® Core™ i7-8600U (8M Cache, up to 3.90 GHz)  
**Display:** 13.3" 1920 x 1080 LED backlit  
**Display brightness:** 400 nits  
**Memory:** Up to 32 GB DDR4-2400 MHz  
**Storage:** 2.5" SATA III SSD (removable)  
**Graphics:** Intel® HD Graphics 620  
**Battery:** 3.7V Li-Polymer (5040mAh)  
**Input devices:** 60-key backlit keyboard, resistive single-touch touchpad  
**Audio:** HD Audio and stereo speakers, embedded digital mic  
**Operating System:** Windows 10  
**Temperature operational:** -20°C to +40°C (-4°F to +104°F)  
**Temperature storage:** -40°C to +70°C (-40°F to +158°F)  
**Dimensions (W x D x H):** 308 x 265 x 31.5 mm (12.1 x 10.4 x 1.24 in) w/ bumpers  
**Weight:** 2.3 kg (5.1 lb) w/ battery  
**Compliant to:** CE, FCC, UKCA, WEEE, REACH, WH/PA, RoHS2.0, PHS, MIL-STD-883C and MIL-STD-461C



**Ports and connectors:**  
 1x Display port or VGA port  
 1x SIM Card Slot  
 1x Serial port (DB9)  
 1x USB 3.1 (USB-A/B-C V1.2 for 1.5 A hot charge)

**Options and accessories:**  
 1x 2nd 8MB Giga LAN  
 1x Giga LAN (Fiber)  
 1x VGA (Fiber)  
 1x Serial I/O RS232/RS422 (Fiber)  
 1x Audio (Fiber)  
 1x USB 2.0 (Fiber)  
 TPM2.0

MILAN 802.11 a/b/g/n/ac  
 Bluetooth 4.2 (BLE)  
 Resistive multi-touch screen  
 Surge protector/EWA module  
 (DC-B-30V)  
 -30°C-25°C Operating Temperature  
 MIL-STD-883C Ground Navy  
 MIL-STD-461C Ground Army

## RW14

**Specifications:**  
**CPU:** Intel® Xeon® E-2276M Processor (8 Cores, 32MB Smart Cache, up to 4.40 GHz)  
**Display:** 15.6" (1920x1080) LED backlit, AG Glass, Optical bonding, Sunlight readable  
**Display brightness:** 500 nits (optional 800 nits)  
**Memory:** Max 128 GB, DDR4-2400 (optional ECC DRAM)  
**Operating System:** Windows 10 and Server 2016 & 2019  
**Graphics:** Intel® HD Graphics P620  
**Battery:** 2x 3.7V 8000mAh Li-Ion  
**Storage:** Up to 4x SATA III SSD (removable)  
**Input Devices:** Resistive touch pad (single touch)  
**Audio:** HD Audio and Stereo Speakers, embedded mic  
**Temperature:** -20°C to +60°C (-4°F to +140°F)  
**Temperature storage:** -40°C to +70°C (-40°F to 158°F)  
**Dimensions (W x D x H):** 382 x 302 x 42 mm (15.0 x 11.9 x 1.65 in) w/ bumpers  
**Weight:** 5.3 kg (depending on configuration)  
**Compliant to:** CE, FCC, UKCA, WEEE, REACH, WH/PA, RoHS2.0  
 PHS (without protection cap), MIL-STD-883C and MIL-STD-461C



**Ports and connectors:**  
 4x SATA III 5Bay  
 4x USB 3.1 Gen. 2  
 1x 6MB GigaLAN (optional 10MB)  
 3x 3.5mm Audio Jack (Mic, Line-in/earphone)  
 1x Display Port (V1.2)  
 1 x VGA  
 2 x Serial ports / COM 1 & 2 (RS232/422/485 8205 selectable)  
 1 x POGO dock port  
 1 x MIL DC in (DC-50V)

**Options and accessories:**  
 800 nits high brightness display  
 TPM2.0  
 2nd 8MB GigaLAN (optional 10MB)  
 GPS (Galileo/Air-MAN)  
 Wi-Fi BT (Intel® AC3200)  
 2 x Serial ports / COM 3 & 4 (RS232/422/485 8205 selectable)  
 1 x Mini-Flash Bay (Write-off with 3rd-4th SSD)  
 Smart Card Reader  
 Resistive multi-touch screen

Intel® Genie™ GTX1050-4GB discrete add-on card\*  
 Surge protector/EWA module (DC-12-32V)  
 -30 °C Operating Temperature  
 MIL-STD-461C - Ground Navy  
 MIL-STD-461F - Ground Army



## RB14

**Specifications:**  
**CPU:** Intel® Xeon® E-2276M Processor (8 Cores, 32MB Smart Cache, up to 4.40 GHz)  
**Display:** 15.6" (1920x1080) LED backlit, AG Glass, Optical bonding, Sunlight readable  
**Display brightness:** 600 nits  
**Memory:** Max 128 GB, DDR4-2400 (optional ECC DRAM)  
**Operating System:** Windows 10 and Server 2016 & 2019  
**Graphics:** Intel® HD Graphics P620  
**Battery:** 2x 3.7V 8000mAh Li-Ion  
**Storage:** Up to 4x SATA III SSD (removable)  
**Input Devices:** Resistive touch pad (single touch)  
**Audio:** HD Audio and Stereo Speakers, embedded mic  
**Temperature:** -20°C to +60°C (-4°F to +140°F)  
**Temperature storage:** -40°C to +70°C (-40°F to 158°F)  
**Dimensions (W x D x H):** 386 x 306 x 42 mm (15.2 x 12.0 x 1.65 in) w/ bumpers  
**Weight:** 7 kg (depending on configuration)  
**Compliant to:** CE, FCC, UKCA, WEEE, REACH, WH/PA, RoHS2.0  
 PHS (without protection cap), MIL-STD-883C and MIL-STD-461C

**Ports and connectors:**  
 4x SATA III 5Bay  
 4x USB 3.1 Gen. 2  
 1x 6MB GigaLAN (optional 10MB)  
 3x 3.5mm Audio Jack (Mic, Line-in/earphone)  
 1x Display Port (V1.2)  
 1 x VGA  
 2 x Serial ports / COM 1 & 2 (RS232/422/485 8205 selectable)  
 1 x POGO dock port  
 1 x MIL DC in (DC-50V)

**Options and accessories:**  
 TPM2.0  
 2nd 8MB GigaLAN (optional 10MB)  
 GPS (Galileo/Air-MAN)  
 Wi-Fi BT (Intel® AC3200)  
 2 x Serial ports / COM 3 & 4 (RS232/422/485 8205 selectable)  
 1 x Mini-Flash Bay (Write-off with 3rd-4th SSD)  
 Smart Card Reader  
 Resistive multi-touch screen

NVIDIA GeForce® GTX1050-4GB discrete add-on card\*  
 Surge protector/EWA module (DC-12-32V)  
 -30 °C Operating Temperature  
 MIL-STD-461C - Ground Navy  
 MIL-STD-461F - Ground Army

## RK15 (available in Q2, 2023)

**Specifications:**  
**CPU:** Intel® Xeon® W-11905AE Processor (8 Cores, 24MB Cache, up to 4.5 GHz)  
**Display:** 15" UKCA 1600 x 1200 LED backlit  
**Display brightness:** 800 nits  
**Memory:** Up to 64 GB DDR4 3200 MHz (optional ECC DRAM)  
**Storage:** Removable 8.2 PCIe NVMe SSD (optional dual m.2 PCIe NVMe SSD)  
**Operating System:** Windows 10/11  
**Graphics:** Intel® Iris Xe  
**Battery:** 51.8V Li-Ion (8000mAh)  
**Input devices:** 60-key backlit keyboard, resistive touchpad  
**Audio:** HD Audio and Stereo Speakers  
**Security:** TPM2.0  
**Temperatures:** -20°C to +55°C (-4°F to +131°F)  
**Temperature storage:** -40°C to +70°C (-40°F to +158°F)  
**Dimensions (W x D x H):** 301.8 x 234.2 x 28.7 mm (11.89 x 9.21 x 1.13 in) w/ bumpers  
**Weight:** 3.5 kg (7.7 lb)  
**Compliant to:** CE, FCC, UKCA, WH/PA, WEEE, REACH, RoHS2.0, PHS (without protection cap), MIL-STD-883C and MIL-STD-461C



**Ports and connectors:**  
 2x USB 3.1 Gen. 1  
 1x USB 2.0  
 3x 3.5 mm audio jack (Mic, Line-in/earphone)  
 1x 8MB Giga LAN (2.5Gbps)  
 1x Removable DVD-RW (Flex Bay)

**Options and accessories:**  
 Smart Card Reader  
 2x Serial port DB9 (COM1 & 2, 8205 selectable)  
 2nd Giga LAN (Intel D2C)  
 Removable 2nd SATA III SSD  
 3rd Flash Bay  
 Removable 2" battery (in Flex Bay)  
 Resistive single touch screen  
 Flex bay with DC, PCIe, USB, LAN, SATA and serial signals for customer specific modules

GPS (Air-MAN)  
 Intel® Wi-Fi 6E AX201 (WH/PA, S, 6E, BT 5.2)  
 2nd battery 10.0V Li-Ion (8000mAh), Multi battery charger  
 Surge protector/EWA module (DC-12-32V)  
 -30°C-25°C Operating Temp  
 MIL-STD-461C Ground Navy  
 MIL-STD-461F Ground Army

## Flex Bay

Available for all notebooks (RT, RK and RF Series)

**Specifications:**  
 2x Gbit LAN  
 2x COM-ports  
 1x Full RS232/RS485  
 1x Tx / Rx  
 USB  
 PCIe  
 SATA  
 Power in/out  
 2nd HDD/SSD: SATA & Heater  
 2nd Battery:  
 7200 mAh  
 Lithium Ion  
 DVD±RW: 3.5"  
 CDDVD SATA



# 配件— 鍵盤及 Docking Stations

## IP54 Keyboard

### Specifications:

89 key layout (emulates 101 /102 keys)  
Windows keys, Elastomer keys (backlight)

**Operating force:** 60 +/-20 g

**Full travel:** 2 mm

**Life:** > 1 million times

**Weight:** 1.2 kg (2.6 lb), 1.7 kg (3.7 lb) with rubber plate (option)

Size of the key caps part: 275×100 mm (10.8×3.9 in)

Size of the keyboard:

325×172 mm (12.8×6.7 in) (W×D)

**Designed to meet:** IP54,

MIL-STD-461D (option)

**Temp operating:** -20 to +50 °C (-4°F to +122°F)

**Temp storage:** -30 to +70 °C (-22°F to +158°F)



## Mini KBD

### Specifications:

USB, 66 keys, backlight, right/left click, stickpointer, Magnesium

**Designed to meet:** IP54

**Certifications:** CE/FCC

**Temp operating:** -20 to +50°C (-4°F to +122°F)

**Temp storage:** -40 to +70°C (-40°F to +158°F)

**Dimensions:** 190×90×12 mm (7.5×3.5×0.5 in) (W×D×H)

**Weight:** 170 g (0.4 lb)



## DockLite (DL 10)

(option for DK & DR Series Tablets)

### Connections:

1× RJ45 GigaLAN  
2× USB 2.0  
2× Sealed MIL USB 2.0  
1× VGA (DB15)  
2× RS232(DB9)  
1× MIL DC in with surge protection  
1× Audio Out  
1× Mic



## DockLite (DLDS)

(option for DS Series Tablet)

### Connections:

1× VGA (DB15)  
1× MLAN  
2× USB 2.0  
1× RS232(DB9)  
1× MIL DC in with surge protection



## Ext. DC-DC Adapter (EVA 1275)

(option for all computers)

### Specifications:

DC Input Range: 12 - 32V  
DC Output Voltage: 19V  
Output Current: 5A (at 28V Input Voltage)  
Ripple Voltage: 200 mV

**Temp operating:** -20 to +50°C (-4°F to +122°F)

**Temp storage:** -40 to +70°C (-40°F to +158°F)

**Dimensions\*:** 137(L) x 64(W) x 39.2(H)

\*length without cables

**Weight:** 600g (1.4 lb)



## Stand Unit (DR/DK)

(option for DR Series Tablets)

### Specifications:

Adjustable in all directions.  
**Dimensions:** 270 × 300 × 160 mm  
(10.6 × 11.8 × 6.3 in) (W × H × D)  
**Weight:** 2 kg (4.4 lb)



## Stand Unit (DS)

(option for DS Series Tablets)

### Specifications:

Adjustable in all directions.  
**Dimensions:** 250 × 331 × 150 mm  
(9.84 × 13.03 × 5.9 inch) (W × H × D)  
**Weight:** 2 kg (4.4 lb)



## Docking Station (DURS)

(option for RS Series Laptop)

### Specifications:

2× RS232\* (DB9) \*optional RS422 & RS485  
1× USB2.0  
1× USB3.0  
1× VGA (DB15)  
1× Megabit LAN (RJ45)  
1× Gigabit LAN (RJ45)

**Temp operating:** -20 to +55°C (-4°F to +131°F)

**Temp storage:** -40 to +70°C (-40°F to +158°F)

**Dimensions:** 386 × 329.5 × 54.2 mm

(15.2 × 13.0 × 2.1 inch) (W × H × D)

**Weight:** 3.15 kg (6.95 lb)





## 售後服務

為我們所有的產品負責並提供解決方案。

我們知道售後服務與緊急支援是對客戶的首要任務。

所有產品皆享有全機 5 年保固及停產後 5 年零組件供應。

# 永續性

考慮到環境、社會與治理(ESG)，茂訊永續性來自各個層面。

我們努力保持良好的 ESG 平衡，這對於滿足當代人的需求至關重要，同時不會危及後代並滿足其需求。

MilDef 遵守強制性要求，例如適用的法律法規、適用的組織和行業標準、合同要求和任何行為準則。

MilDef 努力維持可持續戰略，以確保負責任的投資



我們是 **ISO 14001:2015** 的認證廠商，在乎並愛護自然環境的也是我們公司重要的政策之一。

## 環境認證ISO 14001

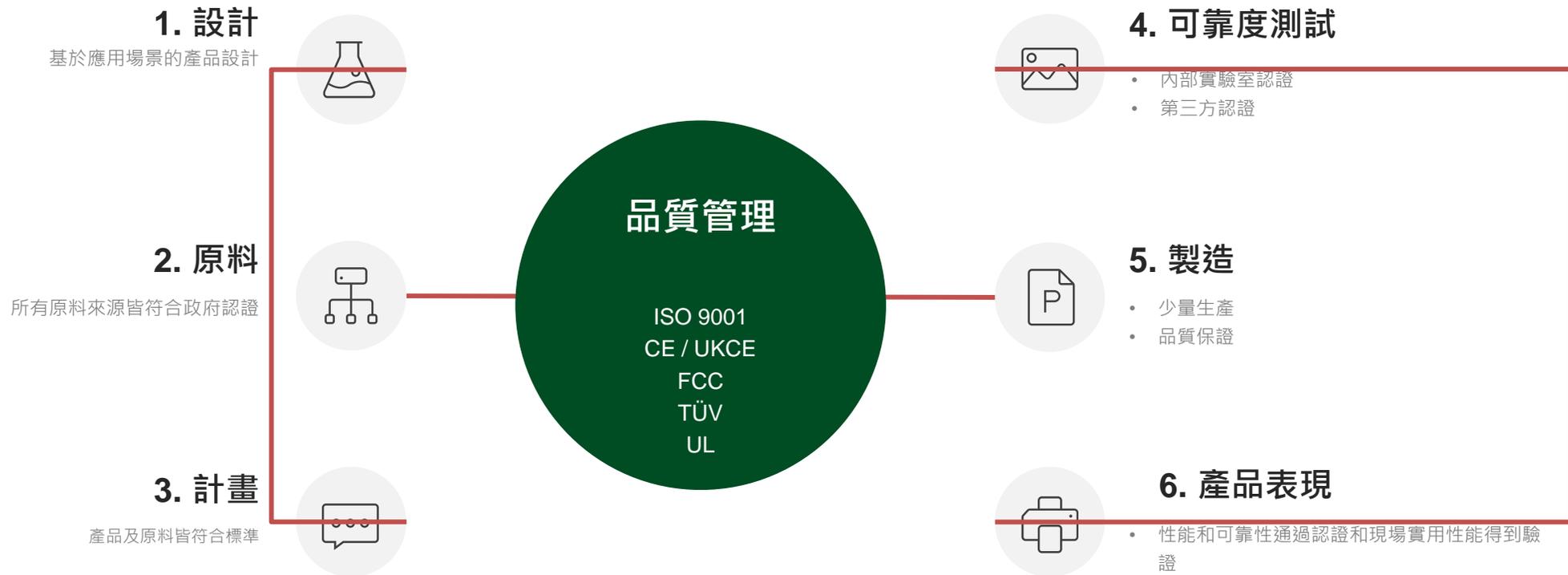
- RoHS
- REACH
- WEEE
- Battery Directive
- Packaging Directive



MilDef茂訊電腦在2021年簽署聯合國全球盟約

# 品質

茂訊電腦的產品行銷全球最嚴峻的環境。我們只使用最高品質的設計與原料來維持可長可久的功能使用與可靠度。我們在設計、研發及製程皆是 **ISO 9001:2015** 的認證廠商。



# 未來茂訊電腦展望與挑戰

## 展望

- I. 新產業市場的拓展，市場AI數字化轉變
- II. 軍工行業產品的擴張，應用及升級換代
- III. 國際地緣政治形勢升級，需求增加

## 挑戰

- I. 上游原物料斷供，短缺 供應鏈持續緊張
- II. 通路/系統部 庫存水位管理
- III. 歐元區匯率不穩定性，國際運費高居不下

謝謝聆聽