

# WHITE PAPER

## Manufacturing Process

## Quality & Environment Policy

### One-stop design and manufacturing services

- (1) Development Market Demand at Early Stage
- (2) Ensure Consistency Quality of Design and Manufacturing Service
- (3) Speed up Time-to-Market Product/Project Management

### Logistic and product life cycle support

- (1) Achieve On-time Delivery (OTD) by ERP with Flexible Operation
- (2) Dedicated Management of EOL key parts with After-Sales Service
- (3) Value Chain Management in High C/P Cost Structure
- (4) Strategic Operation on Small to Large Volume Project



**Edward Chen**

**Manufacturing and Quality Director, Wincomm Corporation**

## WHITE PAPER

### Manufacture & Quality

Guarantee Quality and On-time Delivery of Your Solutions

With extensive manufacturing experience & certified quality assurance systems, our Taiwan manufacturing centers guarantee quality & on-time delivery of your solutions.

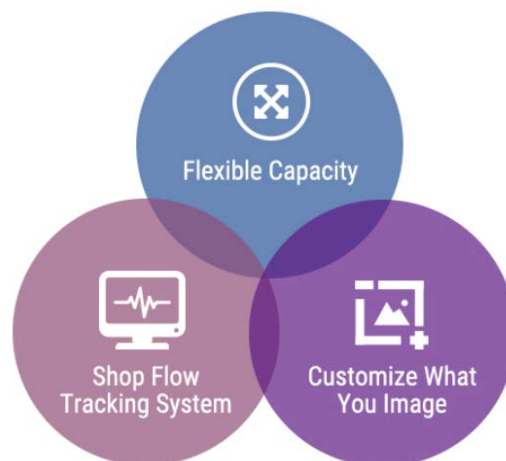
- In-house board, chassis and system production
- World-class manufacturing centers minimize business risks
- Advanced production capabilities and customizable processes
- Rigid quality assurance system
- Most complete ISO standard coverage



#### Manufacturing

- **Flexible Capacity and Manufacturing Management to fulfill diversify needs**

Wincomm is mainly focus on highly customization in versatile applications on small to middle amount applications, and thus developed a flexible capacity on customization production management system as our core manufacturing competence.



- **Flexible Capacity**

Accordingly to versatile orders, Wincomm developed flexible production management to fulfill small to large amount customization needs, and it could allow in-line production capability to improve turn over fulfilling diversify shipment situation. With the full range of product offering available, our production centers can produce a variety of products at either large or smaller volume as customer desires. Focused on its production expertise, we're able to deliver products of better quality and faster delivery time.

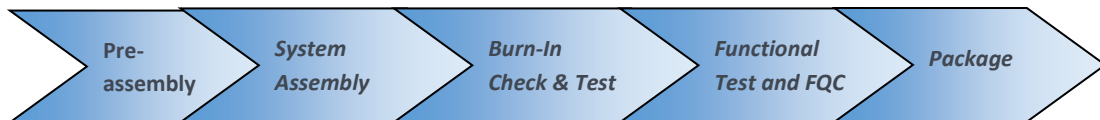
- **Customize What You Image**

To pursuit on highly customization design value, Wincomm developed a special design-manufacturing management system to exactly serve high diverse customer needs. In such a highly quality control system, it could insert a customized step to enable design-change flow at different amount requirement, and which is proof our valuable DMS technique to satisfy our global partners.

- **SFT System**

Through SFT production management system, it could collect materials preparation and test items information automatically and thus provide timely control table to strengthen product production record tracking versus production rate efficiency management.

- **Manufacturing Process**



### **Pre-assembly**

Except material preparation been pre-processed to module, Wincomm prepared process in advance to ensure specialty design products to fulfill the test criteria, such as waterproof, dustproof and son on.

### **System Assembly**

The system is initially assembled by different modules, all key parts are linked together with the serial numbers. By doing so, customers can easily trace the configuration by providing key parts' serial numbers. The free flow ass'y line is also designed for efficient system movement.

### **Burn-In Check & Test**

In order to screen weak components in the system, we set up a burn-in-room for system aging test, all systems must run bun in at Min.  $40\pm 2^{\circ}\text{C}$ , there is a diagnostic program continuously running during aging test to provide the system loading.

## Functional Test and FQC

The System test confirms functionality of all systems before packing. We've created appropriate programs to ensure quality in all functions of systems. All defective systems are screened at system test then re-run after repair.

## Package

The operator will check the cosmetic and clean it before put into package flow. To finalize the customized spec and outlook check, it would proceed to package and then ship to our worldwide partners.



## Quality Management

- **Quality Policy**

「 Pursuit to Innovation with R&D, we are committed to providing product and service which fulfilling customer needs, continuously implementing medical safety, and complying with regulations. 」

WINCOMM bases on design concept which is committed to meeting quality requirement and conforming to regulations to ensure safety, to design our Industrial and Medical computer products, also keep the concept to implement whole manufacturing, quality control processes, and finally to achieve the goal of customer satisfaction with high quality product. In addition, regarding the service, we also build it on quality policy, to offer the best service to our all respected customers.

- **Environment Policy**

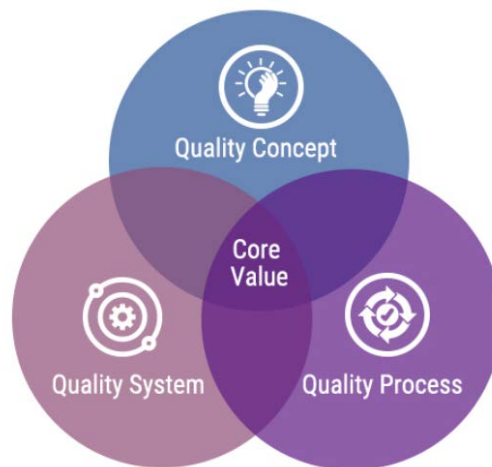
- I. Concentrate R&D Innovation. Maintain Resource Sustainability.
- II. Conform Environmental Regulations. Dedicate Pollution Prevention.
- III. Continue Environmental Improvement. Ensure Sustainable Business.
- IV. Implement Green Management. Fulfill Social Responsibility.

In order to protect the social responsibility of the global environment, WINCOMM employees work together standing on green management and sustainable development and management. WINCOMM is committed to new technology innovation to ensure the sustainable using of resources. All activities related to our operation must comply with international and domestic environmental regulations. Besides, we drive zero pollution in manufacturing to reduce the impact of environment, and also implement waste recycling.

In view of the importance of environmental protection, WINCOMM has been certificated ISO14001:2015 environment management system in 2018Y.

- **Quality Core Competence**

Wincomm focus on high quality requirement, and continue to improve for moving forward. Base on most are customization - oriented product structure, we are committed to providing outstanding quality and service to meet and satisfy various customers' requirements, as our target.



- **Quality Concept**

WINCOMM quality concept is built in “Quality is the responsibility of everyone.” and “Full participation”. Under the quality concept, employees treat quality as a part of job, drives the whole team into the quality culture of total quality management.

- **Quality System**

WINCOMM has been certificated both ISO9001:2015 and ISO13485:2016 quality management systems in 2018Y. Moreover, for special Explosive atmospheres product requirement, Wincomm continues to enhance quality control system. In 2019Y, Wincomm has been certificated ISO80079-34:2018, which is specifies requirements for a quality system that can be used by an organization for the production of equipment and protective systems for explosive atmosphere.

Quality management system verification can help customers to understand that our quality can be trusted, also means WINCOMM declares our quality commitment to customers.



- **Quality Process**

WINCOMM has a strict quality control process, from material incoming IQC, in process IPQC and finish good FQC/OQC. Besides, we also focus on supplier chain management (SCM), to continue enhancing suppliers' quality level via assessment and audit system.

**All quality activities involves in interlinking processes, to achieve customer satisfaction.**



## About Wincomm



Wincomm is one of Taiwan's leading manufacturer of industrial computer and embedded computer products. Wincomm designs and develops all in one panel PC, rugged box PC and embedded software products for a broad range of industries and applications. Wincomm aims to provide hardware and software integrated solutions for the most variant environments such as industrial automation, human machine interface control, infotainment Kiosk, and medical computing.