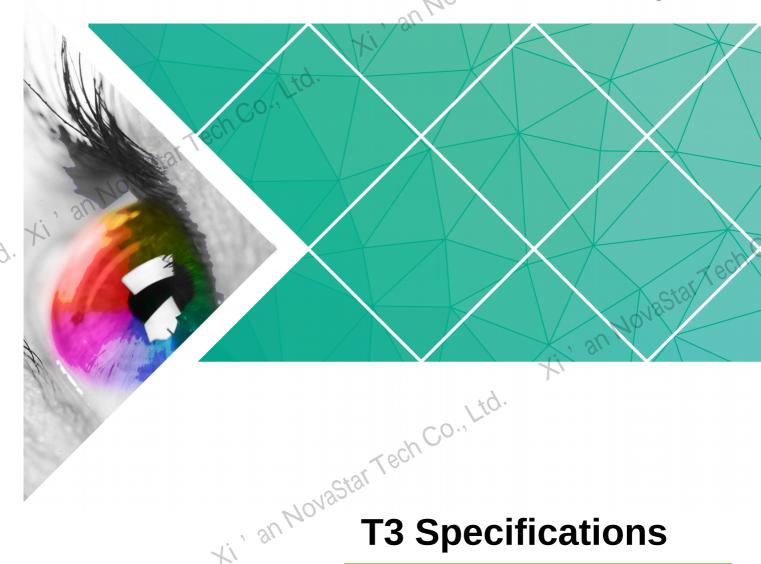


### Taurus Series

**Multimedia Players** 



### **T3 Specifications**

Version: V1.0.0

NovaStar Tech Document Number: NS120100142

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ultimedia Players			
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		Change History	3U NO.
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Version	Release Date	Description	
V1.0.0	2017-07-20	First release.	
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products safety to ensure safety of the product hersonnel the

This chapter illustrates Taurus series products safety to ensure storage, transportation, installation and usage safety of the products.

Safety description is applicable to all personnel that contact or use the products. First, pay attention to following points:

- Read throughout the description.
- Save the whole description.
- Be complied with the whole description.

### rig. Xi, su Monse 1.1 Storage and Transport Safety

- Pay attention to dust and water prevention.
- Avoid long-term direct sunlight.
- Do not place the products at the position near fire and heat.
- an NovaStar Tech C Do not place the products in an area containing explosive materials.
- Do not place the products in strong electromagnetic environment.
- Place the products at a stable position to prevent damage or personal injury caused by dropping.
- Save the packing box and materials which will come in handy if you ever have to ship your products. For maximum protection, repack your product as it was originally packed at the factory.

### **1.2** Installation and Use Safety

- Only trained professionals may install the products.
- Do not insert and unplug (power cord plug) when the power is on.
- Ensure the safe grounding of the device.
- Be careful about electric shock risk. Built-in power supply.
- Always wear a wrist band and insulating gloves.
- Do not place the products in an area having more or strong shake.
- Perform dust removing regularly.

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- Do not maintain the products without authorization but contact NovaStar as soon as possible.

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### 2.1 Introduction

Taurus series products are the second generation of multimedia players dedicated to small and media size LED full color display developed by NovaStar.

T3 of the Taurus series products (herein after referred to as "T3") feature following advantages, better satisfying users' requirements:

- Loading capacity up to 650,000 pixels
- Synchronization display
- Tiq. Xi, SUMONSE Powerful processing capability
  - Omnidirectional control plan
  - Dual-Wi-Fi mode
  - 4G module
  - Redundant backup

### Note:

NovaStar Tech C If the user has a high demand on synchronization, the time synchronization module is recommended. For details, please consult our technical staff.

In addition to program publishing and screen control via PC, mobile phones and LAN, the omnidirectional control plan also supports remote centralized publishing and monitoring.

If 4G network is required, please buy the 4G module based on the 4G network service requirements in the country or region, and install it in advance. SU MOASE

### 2.2 Application

Taurus series products can be widely used in LED commercial display field, such as bar screen, chain store screen, advertising machine, mirror screen, retail store screen, door head screen, on board screen and the screen requiring no PC.

Classification of Taurus' application cases is shown in Table 2.2.1.1.1.1.1.

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Table 2.2.1.1.1.1.1 Application

		12 / ipplication
	Classification	Description
	Market type	<ul> <li>Advertising media: To be used for advertising and information promotion including bar screen and advertising machine.</li> <li>Digital signage: To be used for signage display in retail stores including retail store screens and door head screens.</li> <li>Commercial display: To display commercial information of hotel, cinema and shopping mall, such as chain store screens.</li> </ul>
	Networking mode	Independent screen: Use a PC or the client software of a mobile phone to enable single-point connection and management of a screen.
	tarTech	<ul> <li>Cluster screen: Use the cluster solution developed by NovaStar to realize centralized management and monitor of multiple screens.</li> </ul>
· an Hoya	Connection type	Wired connection: A PC connects to Taurus through the Ethernet cable or LAN.
Tig. Xi, su Monsi		Wi-Fi connection: PC, Pad and mobile phone can connect to Taunus through Wi-Fi, which can be enabled in the case without PC in conjunction with ViPlex software.
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### 3.1 Synchronous Display

The T3 support switching on/off function of synchronous display.

When synchronous display is enabled, the same content can be played on different displays synchronously if the time of different T3 units are synchronous with one another and the same program is being played.

### 3.2 Powerful Processing Capability

The T3 feature powerful hardware processing capability:

- 1.5 GHz eight-core processor
- Xi, an NovaStar Tech C Support for H.265 4K high-definition video hardware decoding playback
- Support for 1080P video hardware decoding
- 2 GB operating memory and 8 GB internal storage space

### 3.3 Omnidirectional Control Plan

Table 3.3.1.1.1.1.1 Control Plan

irectional Control Plan  Table 3.3.1.1.1.1.1 Control Plan				
Control Plan	Connecting Mode	Client Terminal	Related Software	
Program publishing and screen control through PC	Connection via network line Connection via Wi-Fi	PC	ViPlex Express NovaLCT-Taurus	
Program publishing and screen control through LAN	Connection via LAN	PC	ViPlex Express NovaLCT-Taurus	

Xi Yi

Control Plan Connecting Mode Client Terminal Related Software Program Connection via Wi-Fi Mobile phone ViPlex Handy and Pad publishing and control screen mobile through phone Mobile ... Cluster remote Wi-Fi phone, **VNNOX** Pad and PC AP+Sta/wired/4G program ViPlex Handy publishing and ViPlex Express screen control phone. Cluster remote Wi-Fi Mobile **NovaiCare** Pad and PC monitoring AP+Sta/wired/4G ViPlex Handy

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- More efficient: Use the cloud service mode to process services through a uniform platform. For example, VNNOX is used to edit and publish programs, and NovaiCare is used to centrally monitor display status.

  More reliable: Ensure the reliability based on active and standard recovery mechanism and data backup mechanism.

  More safe: Ensure the system fingerprint and in the system of the system

  - accessed through Web. As long perauon can be performed anytime and anywhere.

    Invore effective: This mode is more suitable for the commercial mode of advertising industry and digital signage industry, and makes information spreading more effective.

### **3.4** Dual-Wi-Fi Mode

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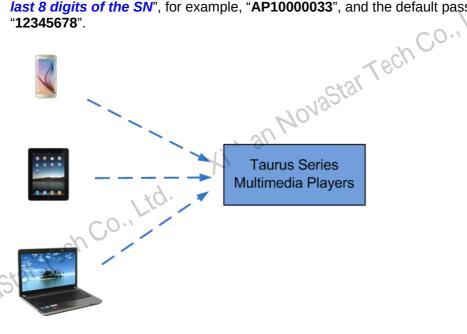
The T3 have permanent Wi-Fi AP and support the Wi-Fi Sta mode, carrying advantages as shown below:

- Completely cover Wi-Fi connection scene. The T3 can be connected to through self-carried Wi-Fi AP or the external router.
- Completely cover client terminals. Mobile phone, Pad and PC can be used to log
  - Require no wiring. Display management can be managed at any time, having

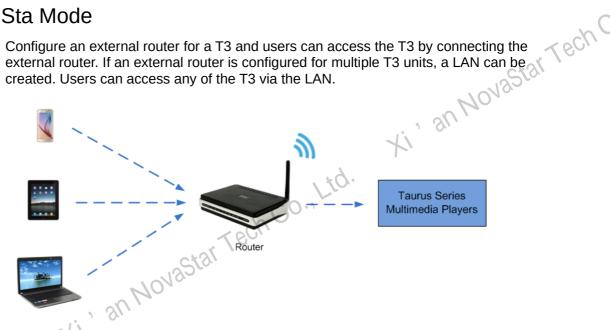
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### 3.4.1 Wi-Fi AP Mode

, SU MO, Users connect the Wi-Fi AP of a T3 to directly access the T3. The SSID is "AP + the last 8 digits of the SN", for example, "AP10000033", and the default password is "12345678".



## 3.4.2 Wi-Fi Sta Mode



In Wi-Fi AP+ Sta connection mode, users can either directly access the T3 or access internet through bridging connection. Upon the cluster solution, VNNOX and NovaiCare can realize remote program publishing and remote monitoring respectively through the Internet.

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### **3.5** 4G Module

The T3 supports 4G module, allowing complete covering of the internet connection.

From high to low, the priority includes:

1.10.

- Wired network
- Wi-Fi Sta
- 4G network

T3 automatically selects signals according to the priority.

Tig. Xi, SUMONSE Xi, su Monastan Lech C When mobile data network is enabled for client software ViPlex and priority requirements are met, T3 with 4G module can connect to the internet.

### 3.6 Redundant Backup

T3 support network redundant backup and Ethernet port redundant backup.

- Network redundant backup: The T3 automatically selects internet connection mode among wired network, Wi-Fi Sta or 4G network according to the priority.
- Ethernet port redundant backup: The T3 enhances connection reliability through any receiving car, an No active and standby redundant mechanism for the Ethernet port used to connect with the receiving card

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# Hardware Structure

### 4.1 Appearance

Figure 4.1.1.1.1.1 Appearance of T3



Note: Product images provided in this file are for reference only, and the actual products shall prevail.

			1	
	1	Gigabit Ethernet port	6	Backup for Ethernet port
	2	USB2.0 port	7	Power input
NovaStar Tech Co.	3	Audio output	8	SIM card eject button
	4	Factory reset button, hold down for 5 seconds to reset to factory defaults	9	SIM card slot
MONSO	5	Ethernet port	10	4G module slot
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Table 4.1.1.1.1.1.1 Indicators of the T3

					81,
	No.	Indicator Color	Indicator Status	Description	
	(1)	Green	Both the green and yellow indicators are turned on simultaneously.	The product is connected to the Gigabit Ethernet cable and the connection status is normal.	
	(2)	Yellow	Always on	The product is connected to the 100M Ethernet cable and the connection status is normal.	
	(3)	Red	Always on	Power input is normal.	
	(4)	Green	Flashes once every 2 seconds	The system is operating normally.	
		Co., Tre	Flashes once every 0.5 second	System is sending data.	
C	tar	(6C),	Always on/off	The system is operating abnormally.	
Tig. Xi, SU Mong;	(5)	Green	Always on	The product is connected to the Internet and the connection status is normal.	
Tig. X.			Flashes once every 2 seconds	The product is connected to VNNOX and the connection status is normal.	rTechC
	(6)	Green	Same as the signal light status of the sending card	FPGA is operating normally.	). <sup>10</sup>

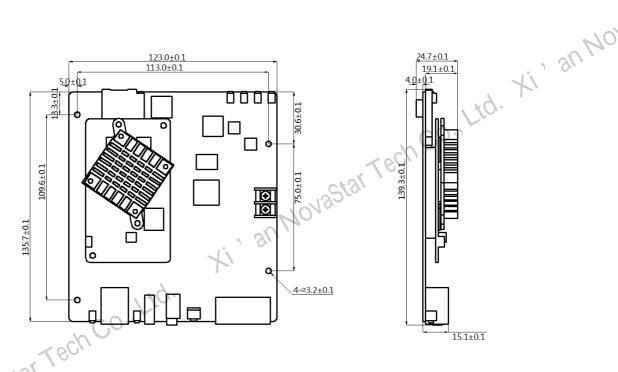
### 4.2 Dimensions

The total thickness (board thickness + thickness of the components on the front and back side) is no greater than 25.0mm.

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Unit of the dimension chart is "mm". Ground connection is enabled for location hole (GND).

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## Software Structure Xi, SU MONS,

### 5.1 System Software

- Android operating system software
- Android terminal application software
- **FPGA** program

Note: The third-party applications are not supported.

## 5.2 Related Configuration Software

Table 5.2.1.1.1.1.1 Related configuration software

• 1	Software	Description
	ViPlex Handy	Mobile phone client software of the T3 includes Android and iOS which are mainly used for screen management, editing, and program publishing.
	ViPlex Express	PC client software of the T3 only includes Windows which is mainly used for screen management, editing, and program publishing.
	NovaLCT-Taurus	Display screen configuration software works in Windows only, and is used to adjust screens to the best display status.
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# 6 Specifications

	T3 Item	Sub-Item	Specifications
	Physical specifications	Dimension (H×W×D)	123.0mm×135.7mm×24.7mm
		Weight	166.3g
	Tech	Input power supply	DC
, c	tar,	Rated voltage	5V
Mora		Rated current	1.5A
Tig. Xi, SU Monga		Maximum power consumption	15W
;d. X1		Storage temperature	0°C-50°C
		Storage humidity	0%RH-80%RH
		Operating temperature	-40°C-80°C
		Operating humidity	0%RH-80%RH
		Operating memory	2GB
		Internal storage space	8GB
	Packing	Dimension (H×W×D)	200mm×120mm×40mm
NovaStar Tech Co.	Lid. Xi 3	Dimension (H×W×D)  List	<ul> <li>One bare card of T3 LED multimedia player</li> <li>One patch Wi-Fi antenna</li> <li>One column Wi-Fi omnidirectio nal antenna</li> <li>One IPex convert SMA 18cm extension line</li> </ul>

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Characteristics	•	Support 650,000 pixel loading capacity, with maximum width of 4096 pixels and maximum height of 1920 pixel.
	•	Support 1-primary 1-standby Ethernet port redundant mechanism.
	•	Support dual-Wi-Fi, and features Wi-Fi AP and Wi-Fi Sta functions.
	•	Support Gigabit wired network.
		Support stereo audio output.
		1-Way USB Host interface supports USB drive importing display.
	riq.	Onboard brightness sensor interface supports automatic and timing smart brightness adjustment.

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