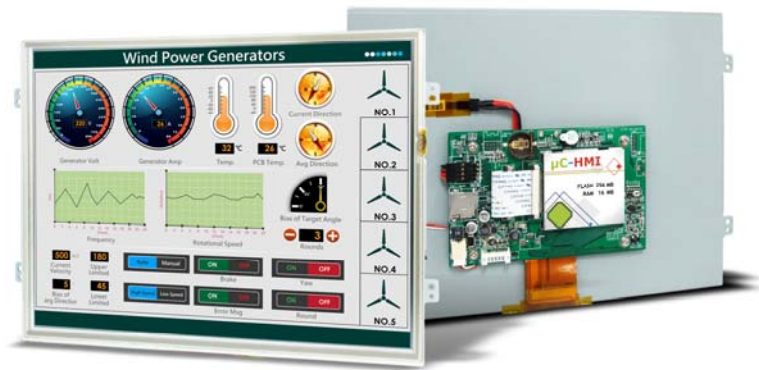


## § BRIEF SPECIFICATION §



### ● *General Description*

FDT Micro Controller-HMI is an unique TFT LCD module which builds graphic and character inside. It provides user to present customized & full color graphics or characters without any SOC or IPC system. In addition, user can update or upload his graphics or characters via Micro SD slot by himself. FDT Micro Controller-HMI not only enhances your product values also saves your cost.

#### **Features**

- Variable-Oriented
- Friendly and Free Development Environment
- Multi-layer design
- Advanced GUI function
- Easy Touch Effects / 4Wires RTP Touch Support
- Multi-Language (Unicode)
- Easy and fast update image with Micro SD
- Built-in Real Time Clock / Buzzer
- LED Backlight Brightness Control
- RAM Support 16MB / Flash Memory 256MB
- Serial Communication: UART (RS232 Option)
- Low Power Consumption / High reliability

#### **Application**

- Industrial Controller
- Medical Equipment
- Security Equipment
- Simple Function Equipment

## • Specifications

LCD	
Panel Size	10.4"
Resolution (Pixels)	800x600
Luminance Without RTP	500cd/m <sup>2</sup>
Luminance (RTP)	200 cd/m <sup>2</sup>
Contrast Ratio	500
View Angle	70 / 70 / 50 / 60
LED Life Time	20K (Min.)
Touch Screen	
Resistive Type	4W
Storage	
Micro SD Slot	Recommend SDHC
Flash Memory	256M Bytes (Note1)
RAM	16M Bytes (Note2)
Picture Format	
Type	BMP category

Power Requirement			
Power Input	+5V VDC		
Power Consumption@+5V	3.8 Watts (±15%)		
Controls			
Transmission Interface	UART / RS232 (Duplex Transmission)		
Communication Protocol			
UART Transmission Rate	115200 (max.921600bps) Bps		
Data Bit	8 Bits		
Parity Bit Check	None		
Stop Bit	1 Bit		
Environment			
Temperature Range	Without RTP	4W RTP	
	Operating	-10~+50°C	-10~+50°C
	Storage	-20~+60°C	-20~+60°C
High Temperature & High Humidity (No Condensation)	Operating	+40°C / 80%	+35°C / 80%

Note 1: Storage memory for Icons, Pictures, Fonts and configure (Max storage instruction qty: 98304)

Note 2: GUI cache memory (Max storage instruction qty: 8192)

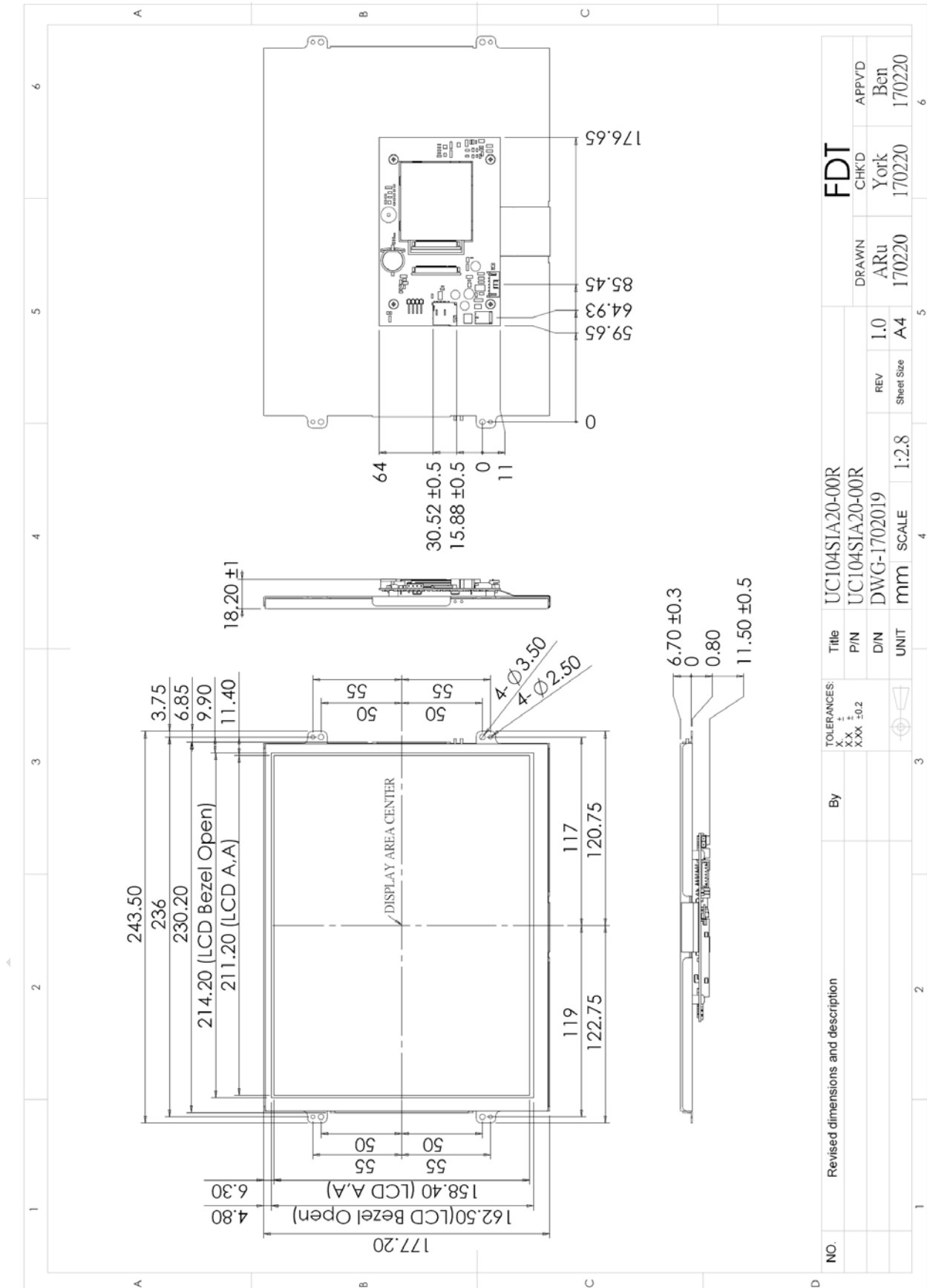
## • Order Information

Parameter	UC104SIA20-00R	UC104SIA24-00R	UC104SIB20-00R	UC104SIB24-00R	Unit
RTC	⊙	⊙	⊙	⊙	
Touch Screen Function	-	4W Resistance	-	4W Resistance	
Buzzer Function	⊙	⊙	⊙	⊙	
Transmission Interface	UART	UART	RS232	RS232	
Condition	Standard	Standard	Non- Standard	Non- Standard	



## ● Dimension Information

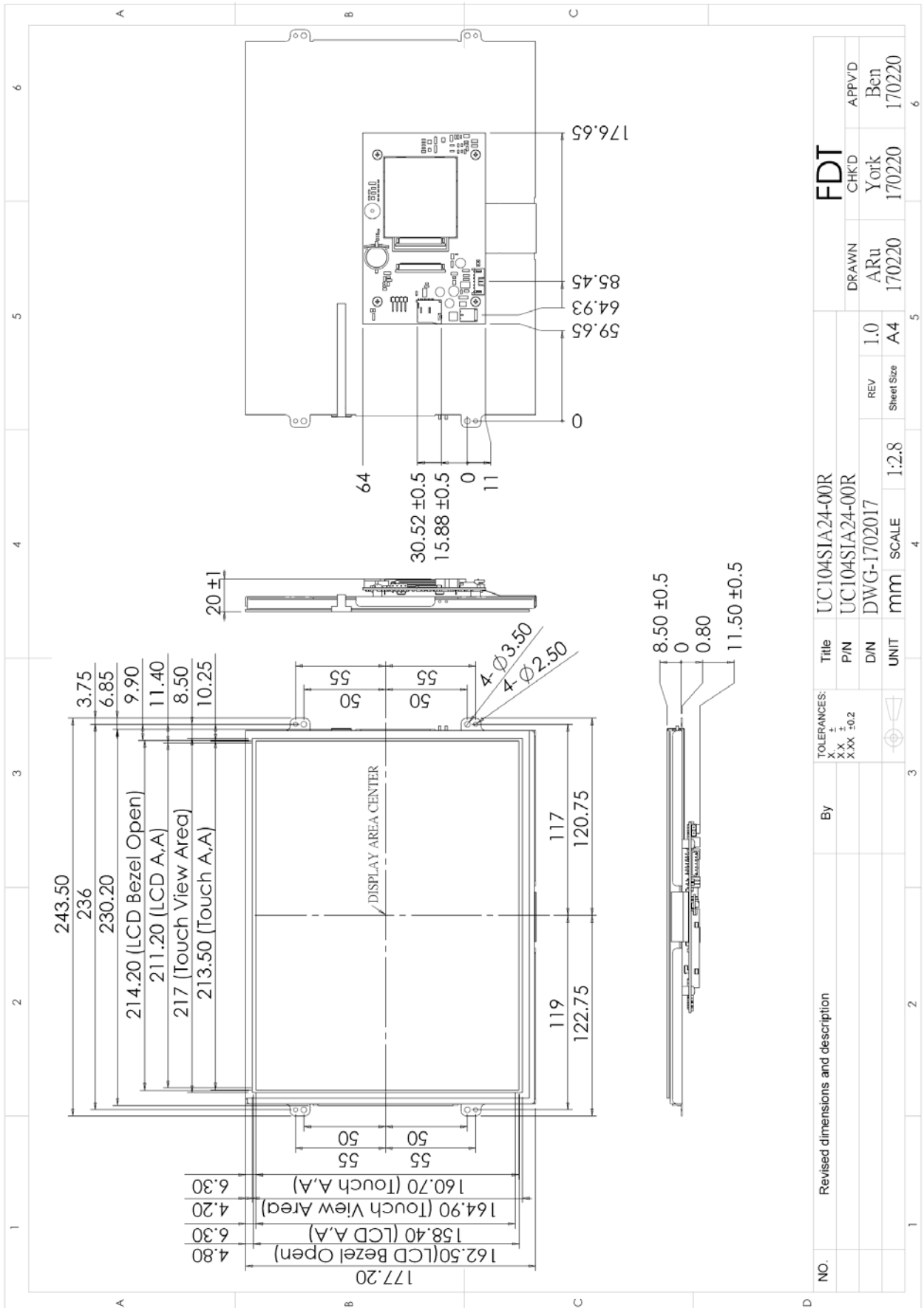
**Unit (UC104SIA20-00R)**



NO.	Revised dimensions and description	By	TOLERANCES:			Title			FDT				
			X	X	XXX	P/N	D/N	UNIT	Scale	REV	Sheet Size	CHK'D	APP'VD
			±	±0.2	±0.2	UC104SIA20-00R	UC104SIA20-00R	mm	1:2.8	1.0	A4	170220	170220
						DWG-1702019				ARu	YorK	Ben	
										170220	170220	170220	170220

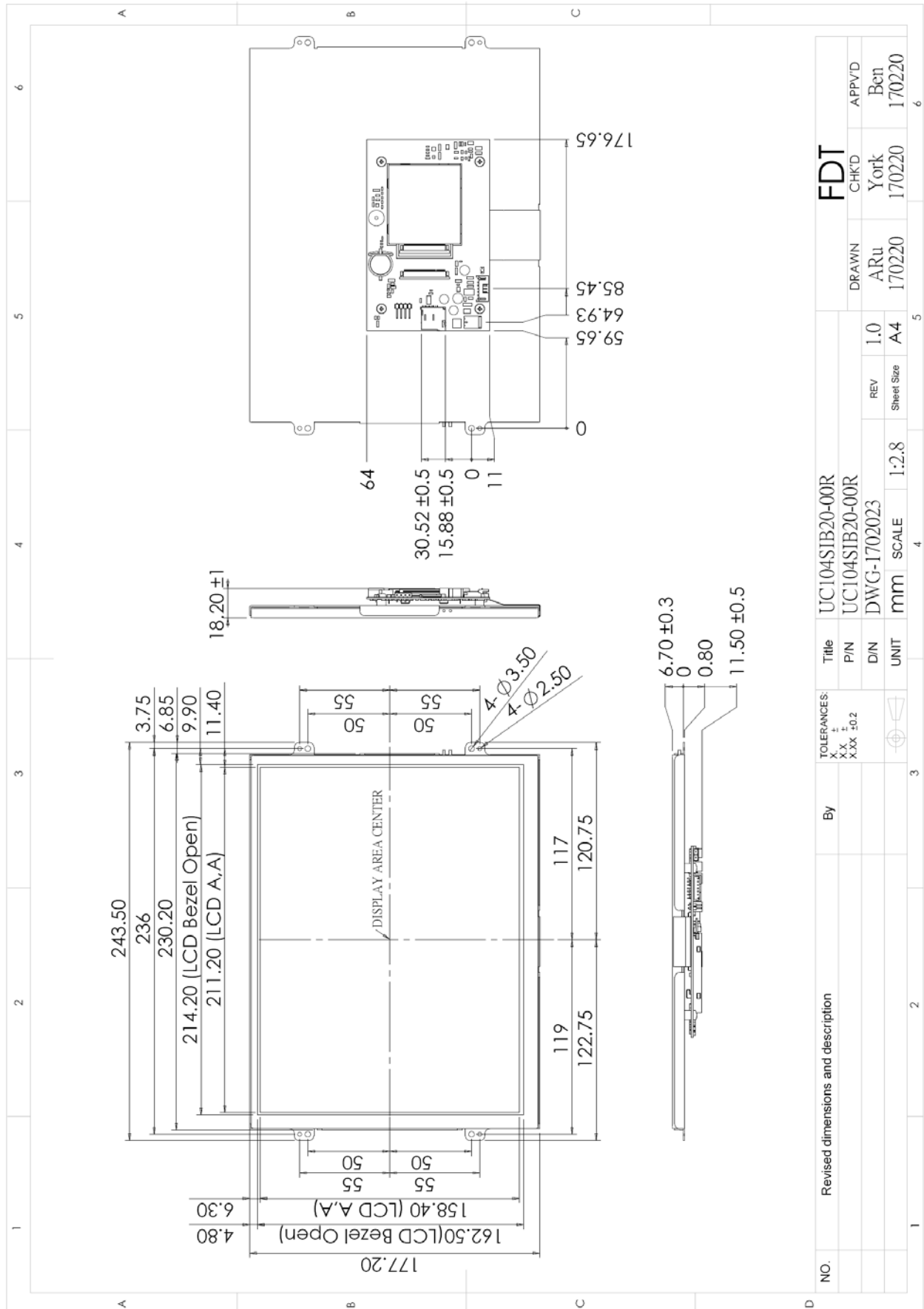


**Unit (UC104SIA24-00R)**





**Unit (UC104SIB20-00R)**



NO.	Revised dimensions and description	By	TOLERANCES: XX ± XXX ±0.2	Title		UC104SIB20-00R		FDT	
				PIN	UC104SIB20-00R	CHK'D	APPVD		
				DIN	DWG-1702023	REV	1.0	YORK	BEN
				UNIT	mm	SCALE	1:2.8	170220	170220
						Sheet Size	A4		



**Unit (UC104SIB24-00R)**

