

NSD2500-HL High Bright Smart Display

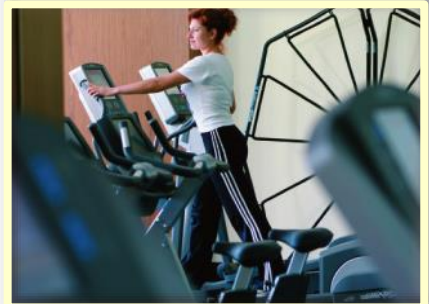
Brightness At Your Command

High brightness / High contrast
Adjust brightness by software
Mission critical 24/7 operation
Capacitive touch screen
Wide view angle

Key Features

- 1500 cd/m² high brightness TFT LCD
- Software adjustable LCD brightness
- Ultra long backlight lifetime (50K-70K hours)
- -20°C~70°C operating temperature
- 7H hardness capacitive touch screen
- 9V ~ 36V wide DC voltage input
- Over voltage/current protection (option)
- Reverse voltage protection (option)
- Multi-band 3G/LTE module (option)
- NXP i.MX6 Cortex-A9 1GHz processor
- OS: Android, Linux, Yocto

[Typical Applications]



- ❑ Data logger
- ❑ Industrial Equipment
- ❑ Smart Home Console
- ❑ Digital Signage
- ❑ POS, KIOSK

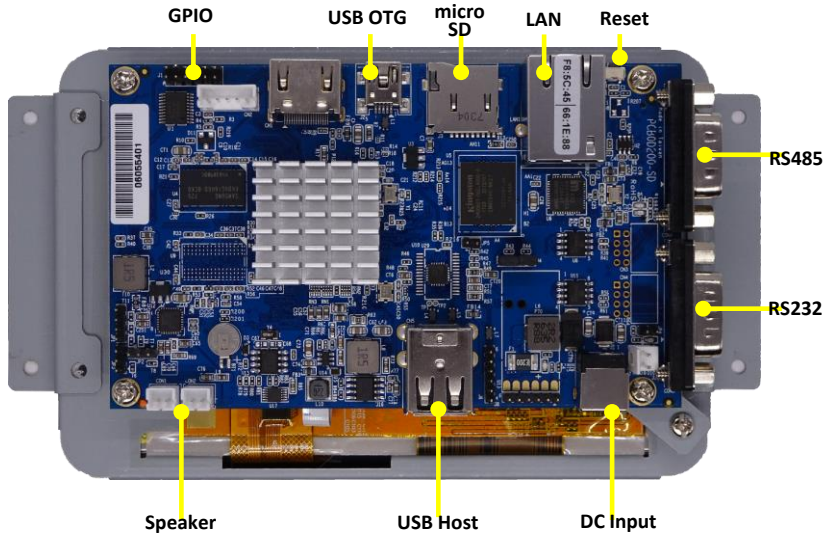
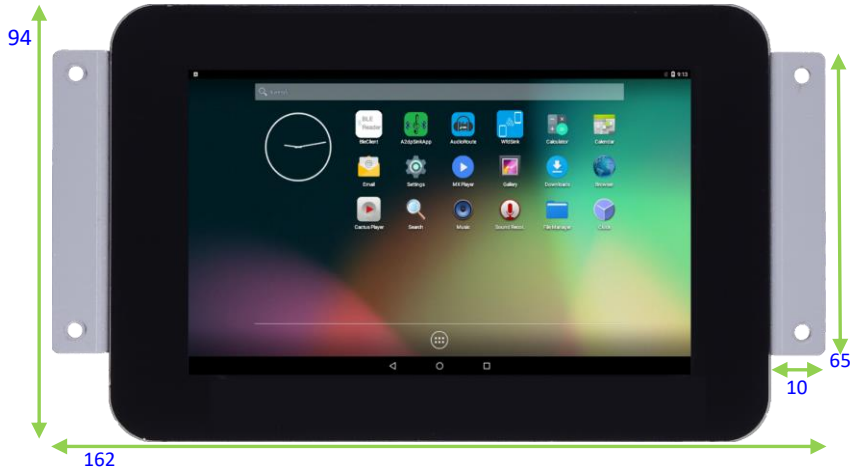


[Product Specifications]

		NSD2510WX-HL	NSD2507WS-HL	NSD2505WV-HL
Display	Screen Size	10.1-inch	7-inch	5-inch
	Resolution/Color	1280x800 / 16.7M	1024x600 / 16.7M	800x480 / 16.7M
	Contrast	800	600	600
	Luminance (cd/m ²)	1200 (wo touch screen) 1000 (w touch screen)	1500 (wo touch screen) 1300 (w touch screen)	1000 (wo touch screen) 850 (w touch screen)
	Backlight Lifetime	LED 70K hours	LED 70K hours	LED 50K hours
	View Angle (°)	(H) 85/85 ; (V) 85/85	(H) 85/85 ; (V) 85/85	(H) 75/75 ; (V) 60/70
Touch Screen	Type	Projected Capacitive	Projected Capacitive	Projected Capacitive
	Points	5	5	5
	Response Time	25ms	25ms	25ms
	Hardness	7H	7H	7H
CPU Memory OS	Processor	NXP iMX6 ARM Cortex-A9 Solo / Dual / Quad @ 1GHz		
	DDR3 / Flash	Solo(iMX6S) 1GB / 4GB ; Dual (iMX6D) 1GB / 4GB ; Quad (iMX6Q) / 2GB / 4GB		
	OS	Android 6.0 (and later) / Linux 4.x / Yocto 1.6 (and later)		
Power	DC Power	+9V ~ +36V	+9V ~ +36V	+5V
Audio	Audio Interfaces	2x speaker i/f + 1x MIC + 1x headphone + 1x Line-in	2x speaker i/f + 1x MIC + 1x headphone + 1x Line-in	2x speaker i/f + 1x MIC + 1x headphone + 1x Line-in
Network	LAN	1x 10M/100M/1G bps Ethernet	1x 10M/100M/1G bps Ethernet	1x 10M/100M/1G bps Ethernet
I/O	USB ports	1x USB2.0 OTG 4x USB2.0 Host	1x USB2.0 OTG 4x USB2.0 Host	1x USB2.0 OTG 4x USB2.0 Host
	SD Card	1x microSD card slot	1x microSD card slot	1x microSD card slot
	COM Port	1x RS232 + 1x RS485	1x RS232 + 1x RS485	1x RS232 + 1x RS485
	I ² C / GPIO	1x I ² C master + 8-bit GPIO	1x I ² C master + 8-bit GPIO	1x I ² C master + 8-bit GPIO
Timer	RTC	Yes (with rechargeable battery)	Yes (with rechargeable battery)	Yes (with rechargeable battery)
	Watchdog Timer	Yes	Yes	Yes
Weight Dimension	Weight	820g	515g	310g
	Dimension	270 x 164 x 38 mm	207 x 117 x 38 mm	162 x 94 x 36 mm
Temperature	Operating Storage	-20°C to 70°C -30°C to 80°C	-20°C to 70°C -30°C to 80°C	-20°C to 70°C -30°C to 80°C
Certification	EMI / EMC	CE, FCC	CE, FCC	CE, FCC
Option	Option Functions (-V)	2x CAN bus + 8x GPIO + over voltage/current protection	2x CAN bus + 8x GPIO + over voltage/current protection	(require a separate extension board)
	Optional Modules	WiFi/Bluetooth module 3G/LTE module 4xRS232/RS485 module	WiFi/Bluetooth module 3G/LTE module 4xRS232/RS485 module	WiFi/Bluetooth module 3G/LTE (require ext. board) 4xRS232/RS485 module

[NSD2505WV-HL Dimension]

(unit: mm)



[NSD2505WV-HL Ordering Information]

Part No.	OS	CPU	Over Voltage Protection	Reverse Voltage Protection	Common Specifications
NSD2505WV-SYC-HL	Yocto	iMX6S	NO	NO	See product specifications table in previous page
NSD2505WV-SAC-HL	Android	Single-Core			

[Optional Modules]

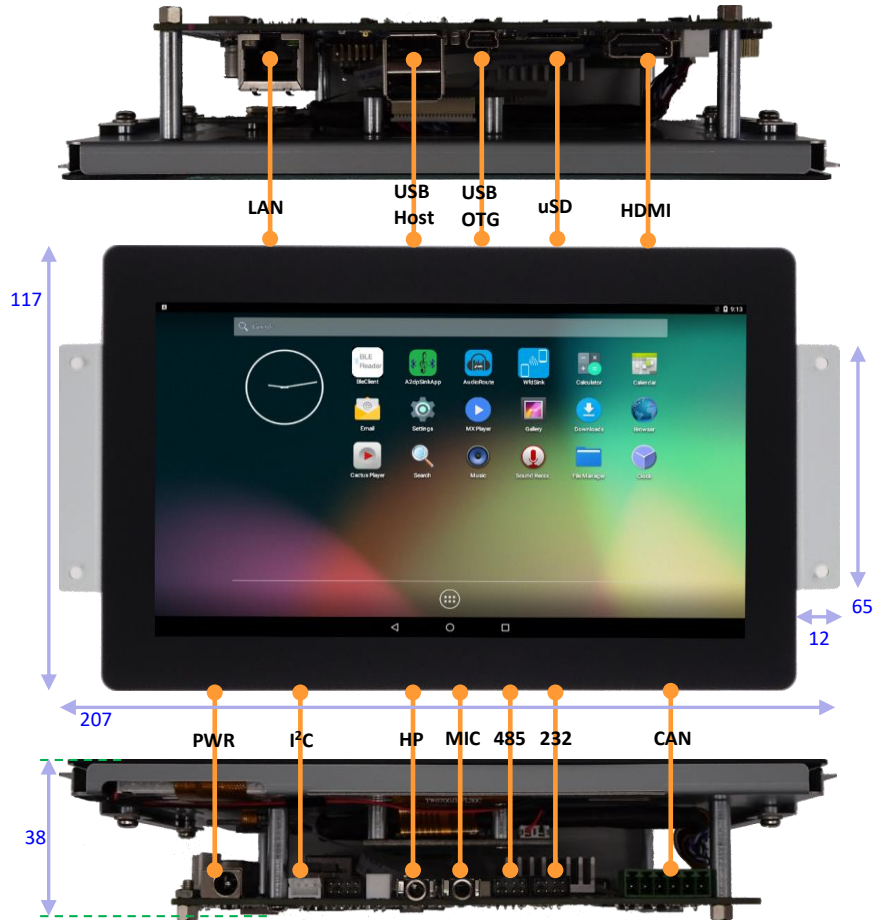
Part No.	Description
WLS-008	(RTL8723bu WiFi + BT) + Antenna (8cm/2dBi, SMA plug reverse)
D120-SD	4x RS232/RS422/RS485 ports module with isolation
WCDMA-002	Multi-Band 3G (WCDMA) module + Antenna
LTE Module	Contact us for LTE support list

Note:

- 1). Contact us for other available versions (dual-core, quad-core, or without touch screen)
- 2). WCDMA-002 and LTE Module require an additional expansion board.

[NSD2507WS-HL Dimension]

(unit: mm)



[NSD2507WS-HL Ordering Information]

Part No.	OS	CPU	Over Voltage Protection	Reverse Voltage Protection	CAN Bus	GPIO	Common Specifications
NSD2507WS-SYC-HL	Yocto	iMX6S Single-Core	NO	NO	NO	8-bit	See product specification table in previous page
NSD2507WS-SAC-HL	Android						
NSD2507WS-SYC-HL-V	Yocto		YES	YES	YES	16-bit	
NSD2507WS-SAC-HL-V	Android						

[Optional Modules]

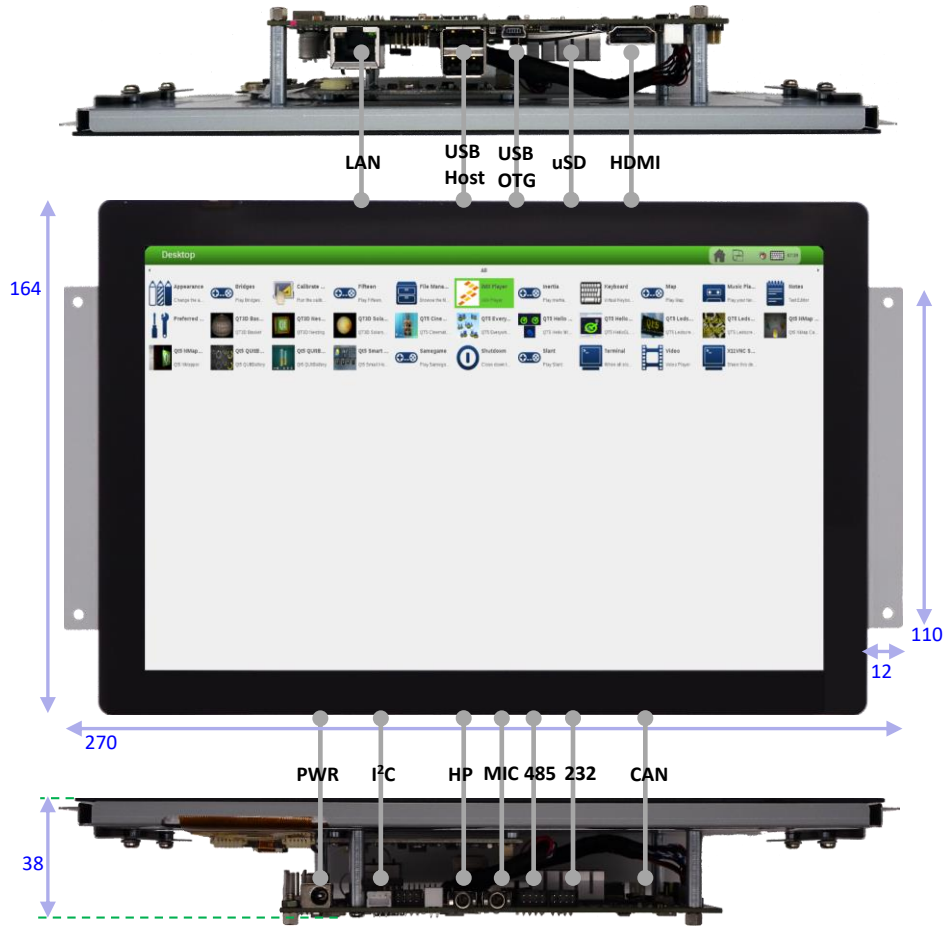
Part No.	Description
WLS-008	(RTL8723bu WiFi + BT) + Antenna (8cm/2dBi, SMA plug reverse)
D120-SD	4x RS232/RS422/RS485 ports module with isolation
WCDMA-002	Multi-Band 3G (WCDMA) module + Antenna
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[NSD2510WX-HL Dimension]

(unit: mm)



[NSD2510WX-HL Ordering Information]

Part No.	OS	CPU	Over Voltage Protection	Reverse Voltage Protection	CAN Bus	GPIO	Common Specifications
NSD2510WX-SYC-HL	Yocto	iMX6S Single-Core	NO	NO	NO	8-bit	See product specification table in previous page
NSD2510WX-SAC-HL	Android						
NSD2510WX-SYC-HL-V	Yocto		YES	YES	YES	16-bit	
NSD2510WX-SAC-HL-V	Android						

[Optional Modules]

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All specifications are subject to change without further notice.