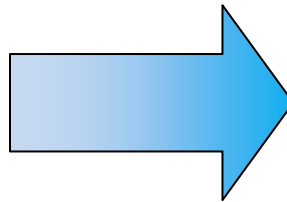
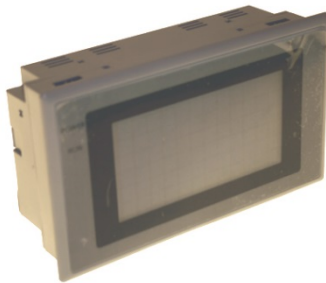


**NO:** NT-085  
**DATE:** May 2014

**PRODUCT:** NT20-ST12\*(B)-E HMI  
**TYPE:** Discontinuation Notice

## Discontinuation of NT20 HMI: 18-month Notice

Due to dwindling sales and adequate migration options, the NT20 HMI models will be retired effective **September 2015**. With the introduction of the NB-Series HMI in 2012, users can utilize better graphics and functionality to satisfy their application without increasing system cost.



NB3Q / NB5Q

### Affected Parts

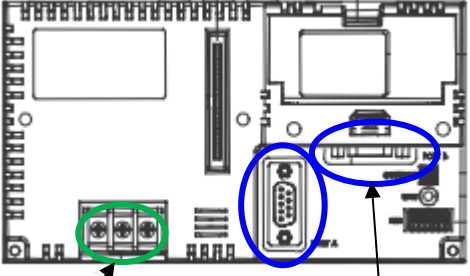
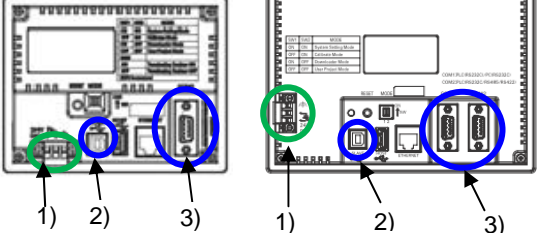
Product discontinuation	Recommended replacement	Description
NT20-ST121	NB3Q-TW00B	3.5" TFT QVGA, 1xSerial
	NB5Q-TW00B	5.6" TFT QVGA, 2xSerial
NT20-ST121B	NB3Q-TW00B	3.5" TFT QVGA, 1xSerial
	NB5Q-TW00B	5.6" TFT QVGA, 2xSerial
NT20-ST128	NB3Q-TW00B	3.5" TFT QVGA, 1xSerial
	NB5Q-TW00B	5.6" TFT QVGA, 2xSerial
NT20-ST128B	NB3Q-TW00B	3.5" TFT QVGA, 1xSerial
	NB5Q-TW00B	5.6" TFT QVGA, 2xSerial
NT20-ST121-E	NB3Q-TW00B	3.5" TFT QVGA, 1xSerial
	NB5Q-TW00B	5.6" TFT QVGA, 2xSerial
NT20-ST121B-E	NB3Q-TW00B	3.5" TFT QVGA, 1xSerial
	NB5Q-TW00B	5.6" TFT QVGA, 2xSerial
NT20-ST121-EC	NB3Q-TW00B	3.5" TFT QVGA, 1xSerial
	NB5Q-TW00B	5.6" TFT QVGA, 2xSerial
NT20-ST121B-EC	NB3Q-TW00B	3.5" TFT QVGA, 1xSerial
	NB5Q-TW00B	5.6" TFT QVGA, 2xSerial

### Cautions on Migration


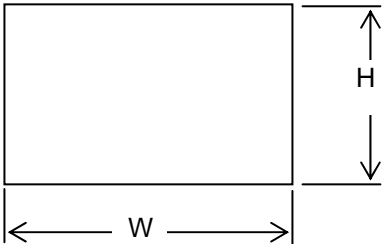
NB-Designer software does not automatically convert the older screen data. NT20 screens will need to be updated.

# Detail of Differences

## Product Wiring

<b>Product discontinuation</b> <b>NT20-ST12*(B)</b> <b>NT20-ST121(B)-E*</b>	<b>Recommended replacement</b> <b>NB3Q &amp; NB5Q</b>
<p>NT20</p>  <p>1) Power input terminals</p> <p>2) RS-232C connector (For connecting to a host or programming)</p> <p>3) RS-232C connector (For connection to a host)</p>	<p>NB3Q</p> <p>NB5Q</p>  <p>1) Power input terminal 2) Programming port (USB) 3) RS-232 connector (For connecting to a host)</p>

## Mounting dimensions

<b>Product discontinuation</b> <b>NT20-ST12*(B)</b> <b>NT20-ST121(B)-E*</b>	<b>Recommended replacement</b> <b>NB3Q &amp; NB5Q</b>									
<p>Panel cut dimensions</p>  <p>178.5 <math>\begin{smallmatrix} +0.5 \\ 0 \end{smallmatrix}</math></p> <p>98.5 <math>\begin{smallmatrix} +0.5 \\ 0 \end{smallmatrix}</math></p>	<p>Panel cut dimensions</p>  <p>W</p> <p>H</p> <table border="1" data-bbox="852 1354 1453 1470"> <thead> <tr> <th>Model</th> <th>W (mm)</th> <th>H (mm)</th> </tr> </thead> <tbody> <tr> <td>NB3Q-TW00B</td> <td>119.0 (+0.5/-0)</td> <td>93.0 (+0.5/-0)</td> </tr> <tr> <td>NB5Q-TW00B</td> <td>172.4 (+0.5/-0)</td> <td>131.0 (+0.5/-0)</td> </tr> </tbody> </table>	Model	W (mm)	H (mm)	NB3Q-TW00B	119.0 (+0.5/-0)	93.0 (+0.5/-0)	NB5Q-TW00B	172.4 (+0.5/-0)	131.0 (+0.5/-0)
Model	W (mm)	H (mm)								
NB3Q-TW00B	119.0 (+0.5/-0)	93.0 (+0.5/-0)								
NB5Q-TW00B	172.4 (+0.5/-0)	131.0 (+0.5/-0)								

# Product Dimensions

<p align="center"><b>Product discontinuation</b>  <b>NT20-ST12*(B)</b>  <b>NT20-ST121(B)-E*</b></p>	<p align="center"><b>Recommended replacement</b>  <b>NB3Q &amp; NB5Q</b></p>
<p><b>Outside Dimensions</b></p> <p>Technical drawings of the discontinued product NT20-ST12*(B) showing front, side, and bottom views with dimensions: 190, 108, 98, 4.5, 40.5, 53.5, and 178.</p>	<p><b>Outside Dimensions</b></p> <p><u>NB3Q</u></p> <p>Technical drawings of the recommended replacement NB3Q showing front, side, and bottom views with dimensions: 103.8, 129.8, 15.5, 59.6, 92.5, 91.2, 6.5, 52.8, 35 (min.), 46 (max.), 118.5, 116.9, 141.</p> <p><u>NB5Q</u></p> <p>Technical drawings of the recommended replacement NB5Q showing front, side, and bottom views with dimensions: 142, 134, 184, 172.2, 15.5, 170.4, 195, 130.8, 129, 153.6, 6.2, 44 (min.), 53 (max.), 46.</p>

## Product Specifications

Item	Product discontinuation NT20-ST12*(B) NT20-ST121(B)-E*	Recommended replacement NB3Q & NB5Q	
		NB3Q	NB5Q
<b>Display device</b>	Monochrome STN LCD	TFT Color LCD	TFT Color LCD
<b>Display inches</b>	--	3.5 inches	5.6 inches
<b>Display colors</b>	White / Black	65,536 colors	65,536 colors
<b>Number of dots</b>	256×128 dot	320×240 dot	320×234 dot
<b>Backlight Service life</b>	50,000 hours min.	50,000 hours min.	50,000 hours min.
<b>Rated power supply voltage</b>	24 VDC	24 VDC	24 VDC
<b>Power consumption</b>	10W max.	9W max.	10W max.
<b>Communications</b>	Serial Communications x2 (RS232C x2)	Serial Communication x1 (RS-232C/RS422A/485) USB 2.0 x2 (type A + type B)	Serial Communication x2 (RS232C+RS232C/RS422A/485) USB 2.0 x2 (type A+ type B)
<b>Standard</b>	UL1604 Class1 Division2, EC	UL508, KC, EC	UL508, KC, EC
<b>Manual</b>	V091: User's Manual V061: Operation Manual V042: PLC Connection Manual	V106: Operation Manual V107: Setup Manual V108: Host Connection Manual	V106: Operation Manual V107: Setup Manual V108: Host Connection Manual
<b>Design software</b>	NT-ZJCAT1-EV4	NB-Designer (download)	NB-Designer (download)

### For More Information...

Please contact your local Omron Application Engineer for questions on screen data conversion. A list of current customers will be circulated to your local Omron Account Manager and Channel Manager. For all other inquiries, please contact Omron Marketing.