

# COLOR LCD DRIVER/CONTROLLER SERIES LINE-UP

## 1. BIT MAP TYPE COLOR LCD DRIVER

BIT MAP TYPE COLOR LCD CONTROLLER/DRIVER LINE-UP is in the following.

### (1)LINE-UP

Type No.	FUNCTION	FEATURES	PACKAGE
NJU6821	80 X 128RGB-output +2 Com 256-Color Bit Map	Display RAM 83,968bits/(Graphic)+2,048bits/ (Mark) NJU6821 61,440bits/NJU6820 122,880bits/NJU6815 196,608bits/NJU6823 196,608bits/NJU6824 248,832bits/NJU6825  Direct Interface with both of 68 and 80 type CPU Serial Interface Voltage Booster x 5 (NJU6820) Voltage Booster x 6 (NJU6815/6823 and 6824) Voltage Booster x 7 (NJU6821 and 6825)  Display Rotate Function/ Display Mirror Inverse Function (NJU6815 and 6824)  Partial Display Function N-Line Inverse for High-Duty Display Precision Electrical Variable Resistance Internal Clock Operation Low Power Consumption Rectangle outlook for COG (NJU6820, 6815, 6823 and 6824) Master/Slave Mode (NJU6821)	BUMPED CHIP TCP
NJU6820	40 X 128RGB-output 4,096-Color Bit Map		BUMPED CHIP
NJU6815	128 X 80RGB-output 4,096-Color Bit Map		BUMPED CHIP
NJU6823	128 X 128RGB-output 4,096-Color Bit Map		BUMPED CHIP
NJU6824	128 X 128RGB-output 4,096-Color Bit Map		BUMPED CHIP
NJU6825	162 X 128RGB-output 4,096-Color Bit Map		BUMPED CHIP TCP

### (2)SPECIFICATION COMPARATIVE TABLE

Item	Type No.					
	NJU6821	NJU6820	NJU6815	NJU6823	NJU6824	NJU6825
Display Capacity	82cx128s	40cx128s	128cx80s	128cx128s	128cx128s	162cx128s
Extension Function	164cx128s	-	-	-	-	-
Logic Operating Voltage	1.7V-3.3V	1.7V-3.3V	1.7V-3.3V	1.7V-3.3V	1.7V-3.3V	1.7V-3.3V
LCD Driving Voltage	18.0V	18.0V	18.0V	18.0V	18.0V	18.0V
DD RAM Size	86,016	61,440	122,880	196,608	196,608	248,832
Interface	Parallel Serial	Parallel Serial	Parallel Serial	Parallel Serial	Parallel Serial	Parallel Serial
Display Rotate function	-	-	Have	-	Have	-
Voltage Booster	Booster x 7	Booster x 5	Booster x 6	Booster x 6	Booster x 6	Booster x 7
Oscillation Circuits	CR	CR	CR	CR	CR	CR
Bias Ratio	1/5-1/10	1/9-1/12	1/9-1/12	1/9-1/12	1/9-1/12	1/9-1/12
Electrical Variable	128 step	128 step	128 step	128 step	128 step	128 step
Duty	*	*	*	*	*	*

\* Partial Display Function to set one display area on the screen with Automatic Duty cycle Ratio Selection.

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### (3)SELECTION GUIDE

Display	80RGB SEG	128RGB SEG	132 SEG	134 SEG
40 COM		NJU6820 *3, *4		NJU6820 *1, *4
80 COM	-	NJU6821 *2, *4		
88 COM	NJU6815 *3, *4	NJU6823 NJU6824 *3, *4	NJU6815 *1, *4	NJU6823 NJU6824 *1, *4
104 COM	-	NJU6825 *3, *4		NJU6825 *1, *4

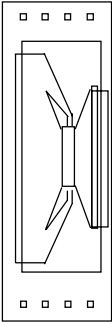
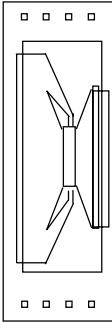
\*1 16-Gray Scale.

\*2 256-color STN LCD Driver.

\*3 4,096-color STN LCD Driver.

\*4 Partial Display Function to set one display area on the screen with Automatic Duty cycle Ratio Selection.

### (4)STANDARD TCP

Type No.	NJU6821H01	NJU6825H01
Item		
Out Line of TCP		
Size(mm)	36.7 x 16.05	36.91 x 19.80
Chip Mount	Face DOWN	Face DOWN
Display Capacity	82 x 128RGB dot	162 x 128RGB dot
Common Driver	80-Common (COM0-COM79) COMI0 , COMI1	162-Common (COM0-COM161)
Segment Driver	384-Segment	384-Segment
Duty	*	*
Interface	8/16 bit Parallel/Serial	8/16 bit Parallel/Serial
Packing	Reel Packing	Reel Packing
TCP Folding	No Guarantee	No Guarantee

\* Partial Display Function to set one display area on the screen with Automatic Duty cycle Ratio Selection.

·The above TCPs are standard products, therefore initial cost(for development) is not required.

In case of the custom TCP, please consult with New Japan Radio about initial cost.