

Stock code: 833096

BX tri-color controller products

- ➤ BX-6th generation tri-color voice series
- ► BX-5th generation dual color series



Create the full range of industrial LED controller





2018, ONBON will make a colorful world

The most complete LED control system products in LED industrial

SYNC Full Color Controller

Higher refreshment, Better display effect Bigger control size, Better experience



Multi-media Player

Integration SYNC & ASYN Products
Large/medium cluster network control



Video Processor & Controller

Compatible with LED controller
More breaks and innovation



Lintel Full Color Controller

Best solution for lintel full color screen and LED posters



Full Range Of LED Controller

· Industrial ·

BX-5 Series Single&Dual Color BX-6 Series Tri-color Audio Controller Audio Font Library Controller

Support all kinds of full color module Support audio broadcast Match with all kinds of device



Wireless Communication Products

Meet with all kinds of wireless Communication screen requirements



Customized Products

Leader of the cluster projects Intelligent city/Environmental monitoring/ Flexible connect to the industrial site



Multimedia Info Release Platform

Based on cloud technical

Any time any where, Efficient and intelligent Secure and easy application



BX controller is the first choice of big and middle LED group system projects

- The most completed LED control system products in LED industrial
- The leader of the application and development of LED controlling techniques by strong innovation ability
- · Supply fast second development and customized service by professional engineers team
- Supply the best software and online updating technical
- We get wide application of all kinds of LED cluster system
- Hundreds of agents in all over the world can supply professional and local service

ONBON supply best products and customized service

After 10 years, BX is the specified brand for big projects!

BX market share is more than 70% in the update LED projects!



About BX-6th generation tri color voice series

Specially used for big project bid

Onbon BX-6th generation products highlight the noble, the pursuit of excellence. High core technology innovation, continue to lead the industry

- (1) Support Tri-color display, support smart scan. Easy to compatible with special modules and full color modules
- (2) Single core framework, dual core display, best display performance, Single core architecture, dual core performance
- (3) Solve most problems for single core controllers: Text seriously wrong column when shift to left. Screen jitter when move to lift and the brightness is seriously reduced when shift lift in long screen, Significantly improved refresh rate
- (4) Display effects real-time preview, u will get what u see, screen movement speed arbitrary adjustment, screen moving more smoothly
- (5) On-board many kinds of sensor interface, support all kinds of environmental test sensors
- (6) Richer interface, stronger function, more excellent craft, more stable performance

The 6th generation common products BX-6U/6A/6M series

BX-6th generation controller	Control size & Display mode		
BX-6UT-0812	single color /dual color 16K pixels, 1024*16 512*32 336*48 256*64		
BX-6UT-75	tri color 16K pixels, 1024*16 512*32 256*64 128*128		
BX-6U0 /BX-6A0 -YY	single color 32K /dual color 24K /tri color 16K pixels, 2048*16 1024*32 672*48 512*64		
BX-6U1(S+U) /BX-6A1(RS485) -YY	single color 64K /dual color 48K /tri color 32K pixels, 3200*16 2048*32 1344*48 1024*64		
BX-6U2(S+U) /BX-6A2(RS485) -YY	single color 128K /dual color 96K /tri color 64K pixels, 3200*32 2048*64		
BX-6U3(S+U) /BX-6A3(RS485) -YY	single color 128K /dual color 96K pixels, 3200*32 2048*64 1024*128		
BX-6U(S+U) -YY	single color /dual color 64K pixels, width≤512, 512*128		
BX-6MT-0812(E+U)	single color /dual color 16K pixels, 1024*16 512*32 336*48 256*64		
BX-6MT-75(E+U)	tri color 16K pixels, 1024*16 512*32 256*64 128*128		
BX-6M0(E+U) -YY	single color 32K /dual color 24K /tri color 16K pixels, 2048*16 1024*32 672*48 512*64		
BX-6M1(E+U) -YY	single color 64K /dual color 48K /tri color 32K pixels, 3200*16 2048*32 1344*48 1024*64		
BX-6M2(E+U) -YY	single color 128K /dual color 96K /tri color 64K pixels, 3200*32 2048*64		
BX-6M3(E+U) -YY	single color 128K /dual color 96K pixels, 3200*32 2048*64 1024*128		
BX-6M(E+U) -YY	single color /dual color 64K pixels, width≤512, 512*128		
	single color 512K pixels, width≤2048, 2048*256 1344*384 1024*512		
BX-6E1(E+S+U)	dual color 256K pixels, width≤2048, 2048*128 1344*192 1024*256		
	tri color 160K pixels, width≤2048, 2048*80 1280*128 1024*160		
	single color 1024K pixels, width≤4096, 4096*256 2720*384 2048*512		
BX-6E2(E+S+U)	dual color 512K pixels, width≤4096, 4096*128 2720*192 2048*256		
	tri color 320K pixels, width≤4096, 4096*80 2560*128 2048*160		
	single color 4096K pixels, width≤8192, 8192*512 5440*768 4096*1024		
BX-6E3(E+S+U)	dual color 2048K pixels, width≤8192, 8192*256 5440*384 4096*512		
	tri color 1280K pixels, width≤8192, 8192*160 5440*240 4096*320		
BX-YY voice broadcast module	Match with BX-6E /6Q series, meet with all kinds of voice project requirements		
"-YY"means the voice cluster module, E	3X-6E series matched with BX-YY, meet with voice projects requirements		

BX-5th generation dual color series

Perfect definition of LED dual color controller

Advantages of BX-5th generation products:

- (1) Support: a, Adjust the brightness automatically by brightness sensor. b, Weather forecast
- (2) BX-5E series is the leader for speed performance, smooth image technology and super long control size
- (3) BX-5M/5E/6E series support server mode and internet transmitting, Can be connected with kinds of switchboard and it's very stable on some complicated networks."
- (4) All BX products support temperature /temperature&humidty sensor, Support IR controller /button select the program 5E/6E series support kinds of noise sensor
- (5) Eight techniques: Area frame /text animation /colorful background /IR controller /transfer from the break point /super long&high control /full color with gray scale /wireless built-in
- (6) Higher brightness, Bigger control area, Faster communication, Higher refreshment, More stable screen, More smooth movement, Stronger function, Simple operation
- (7) Support 3.5-6V working voltage, -40°C ~ 80°C working temperature

The 5th generation common products BX-5U /5A /5M series

BX-5th generation controller	Control size & Display mode	
BX-5UL	single color 10K pixels, dual color 5K pixels /width half reduce, 640*16 320*32	
BX-5UT /BX-5AT	single color 16K pixels, dual color 8K pixels /width half reduce, 1024*16 512*32 336*48 256*64	
BX-5U0 /BX-5A0	single color 32K pixels, dual color 16K pixels /width half reduce, 2048*16 1024*32 672*48 512*64	
BX-5U1(S+U) /BX-5A1(RS485)	single color 64K pixels, dual color 32K pixels /width half reduce, 3200*16 2048*32 1344*48 1024*64	
BX-5U2(S+U) /BX-5A2(RS485)	single color 100K pixels, dual color 50K pixels /width half reduce, 3200*32 2112*48 1600*64	
BX-5U3(S+U) /BX-5A3(RS485)	single color 128K pixels, dual color 64K pixels /width half reduce, 3200*32 2048*64 1344*96 1024*128	
BX-5U4(S+U) /BX-5A4(RS485)	single color 128K pixels, dual color 64K pixels /width half reduce, 2048*64 1024*128 672*192 512*256	
BX-5U(S+U)	single color 128K pixels, dual color 64K pixels (width≤512pixels), 512*256	
BX-5A	single color 64K pixels, dual color 32K pixels /width half reduce, 1024*64 512*128 320*192 256*256	
BX-5MT(E+U)	single color 16K pixels, dual color 8K pixels /width half reduce, 1024*16 512*32	
BX-5M1(E+U)	single color 32K pixels, dual color 16K pixels /width half reduce, 2048*16 1024*32 672*48 512*64	
BX-5M2(E+U)	single color 128K pixels, dual color 64K pixels /width half reduce, 3200*16 3200*32 2688*48 2048*64	
BX-5M3(E+U) new version	single color 128K pixels, dual color 64K pixels /width half reduce, 3200*32 2048*64 1344*96 1024*128	
BX-5M4(E+U)	single color 128K pixels, dual color 64K pixels /width half reduce, 2048*64 1024*128 672*192 512*256	
BX-5E1(S+U)/(E+U)	dual color 256K pixels (width≤2048pixels), 2048*128 1344*192 1024*256	
BX-5E2(S+U)/(E+U)	dual color 512K pixels, 4096*128 2048*256	
BX-5E3(E+S+U)	dual color 1024K pixels BX-5UL, 8192*128 4096*256 2048*512	





BX-6M Series

Support tri-color, compatible for all kinds of full color modules, single core framework, dual core display, best display performance

- (1) support smart scan, support all kinds special module and full color modules
- (2) BX-6M-YY support Chinese/English voice broadcast function, meet with all kinds of voice project requirements
- (3) Added new "Smart search IP /automatically search device " function BX-6M series supports 8 areas/128 programs
- (4) Solve most problems for single core controllers: Text seriously wrong column when shift to left. Screen jitter when move to lift and the brightness is seriously reduced when shift lift in long screen, Significantly improved refresh rate
- (5) Display effects real-time preview, u will get what u see, screen movement speed arbitrary adjustment, screen moving more smoothly
- (6) On-board brightness / temperature / temperature and humidity sensor interface seat,
 On-board infrared remote control head socket
- (7) 2 nos of T75 + 2 nos of T8 + 4 nos of T12 on board of BX-6M0/6M1/6M2, 4 nos of T8 + 8 nos of T12 on board of BX-6M3/6M



BX-6M series products model:

BX-6MT /6M0 /6M1 /6M2 /6M3 /6M

BX-5M series

Support server and Internet transmit, compatible with all brands of switches, strong suitability and stable communication

Carry forward the classic,

Forge ahead into the future,

Make full use of the single-CPU Controller comprehensive performance,

August 2010, BX-4M series products were launched,

Be the first network LED controller by single-CPU Controller,

Fill the gap in the industry by launching the controllers with on-board 100M network and USB interface

Feb 2012, BX-5M series products were launched,

Quickly capture market by excellent performance and perfect design



BX-5MT /5M1 /5M2 /5M3 /5M4



BX-6E series

Support tri-color, compatible for all kinds of full color modules. More excellent control size, more smoothly display moving, multiple Chinese/English font library inside, support other language font library

- (1) Support smart scan, support all kinds special module and full color modules
- (2) Match with BX-YY, support Chinese/English voice broadcast, meet voice project requirements
- (3) More excellent control size more excellent control size: W≤8192 pixels, H≤1024 pixels, maximum pixels 4096K BX-6E series match with HUB512-T8 or HUB 512-T12(special for single color screen use) each 50pin port can control 512 pixels in height, if screen height ≤256 also can use normal HUB
- (4) Added new "Smart search IP / automatically search device " function ;support 32 areas /256 programs
- (5) Display effects real-time preview, u will get what u see, screen movement speed arbitrary adjustment, screen moving more smoothly.
- (6) On-board brightness / temperature / temperature and humidity sensor interface seat, On-board infrared remote control head socket.
- (7) Support multiple dynamic areas, support update info in real time, Chinese /English font library inside, support other language font library.



BX-5E series products model: BX-6E1 /6E2 /6E3 (E+S+U)

BX-5E series

Support super large size LED screen, widely used in all kinds of LED lintel screens and LED cluster display system.

Support server and Internet transmit, compatible with all brands of switches, strong suitability and stable communication

BX dual color flagship product,

August 2007, BX-E series products were launched,

Be the first LED controller with 100M network port on board.

June 2012, BX-5E series products were launched,

Quickly capture market by excellent performance and perfect design



BX-5E series products model:

BX-5E1 /5E2 (E+U) BX-5E3 (E+S+U)



BX-6K series

Support tri-color, compatible for all kinds of full color modules single core framework, dual core display, best display performance

Solve most problems for single core controllers:

Text seriously wrong column when shift to left. Screen jitter when move to lift and the brightness is seriously reduced when shift lift in long screen, Significantly improved refresh rate



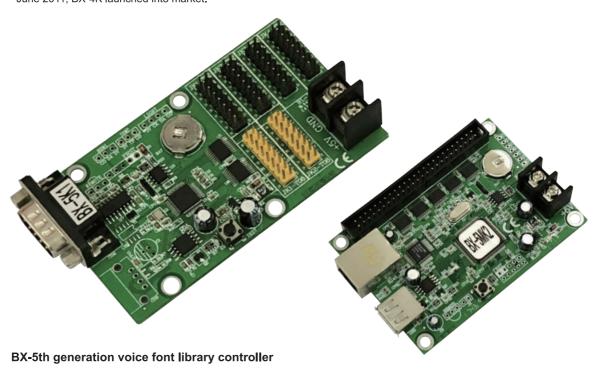
BX-6K series	Control size & Display mode	
BX-6K1 (S+U)/(E+U)	single color /dual color /tri color 32K pixels, width≤512, 512*64	
BX-6K2 (S+U)/(E+U)	single color 128K /dual color 96K /tri color 64K pixels, width≤2048, 2048*64	
BX-6K3 (S+U)/(E+U)	single color 128K /dual color 96K pixels, width≤2048, 2048*64 1344*96 1024*128	
BX-6K1-YY (S+U)/(E+U)	single color /dual color /tri color 32K pixels, width≤512, 512*64	
BX-6K2-YY (S+U)/(E+U)	single color 128K /dual color 96K /tri color 64K pixels, width≤2048, 2048*64	
BX-6K3-YY (S+U)/(E+U)	single color 128K /dual color 96K pixels, width≤2048BX-6K1 (S+U)/(E+U), 2048*64 1344*96 1024*128	

- Supply protocol, specially used in secondary development project like industrial site, match equipment, bus display ,intelligent bus station and cluster system display etc
- 2. BX-6K compatible with 5K protocol, easy to development, support all kinds of sensors. BX-6k-YY support Chinese/English broadcast.
- 3. Higher refreshment display, update in real time with stable image displaying without blinking
- 4. BX-6K1/6K2 2 nos T75 + 2 nos T8 + 4 nos T12 on board, BX-6K3/6K3-YY 4 nos T8 + 8 nos T12 on board

BX-5K series

Built-in font library, oriented to all kinds of special application systems, flexible to meet customer requirements. Support multi-group area dynamic update, Supply protocol, support secondary development

The first font library LED controller in the industry, oriented to all kinds of special application systems. Supply open secondary development platform, Flexible to meet special requirements of customers, June 2011, BX-4K launched into market.



BX-5K series	Control size & Display mode		
BX-5K1 (S)	single color 48K pixels, dual color 24K pixels /width half reduce, 2048*16 1536*32 1024*48 768*64		
BX-5K2 (S)	single color 72K pixels, dual color 36K pixels /width half reduce, 2048*32 1152*64 576*128 384*192 288*256		
BX-5MK1 (E)	single color 72K pixels, dual color 36K pixels /width half reduce, 2048*16 2048*32 1536*48 1152*64		
BX-5MK2 (E)	single color 72K pixels, dual color 36K pixels /width half reduce, 2048*32 1152*64 576*128 384*192 288*256		
	single color 72K pixels, 2048*16 2048*32 1536*48 1152*64		
BX-5K1Q-YY	dual color 36K pixels /width half reduce, 2048*16 1024*32 768*48 576*64		
(E+U)/(S+U)	tri color 24K pixels BX-5K1(S), 1344*16 672*32 512*48 384*64		

- Supply protocol, specially used in secondary development project like industrial site,
 match equipment, bus display, intelligent bus station and cluster system display etc
- BX-5K1Q-YY support Chinese /English voice broadcast function, abundant interface, support all kinds of single color/dual color /tri color LED screen

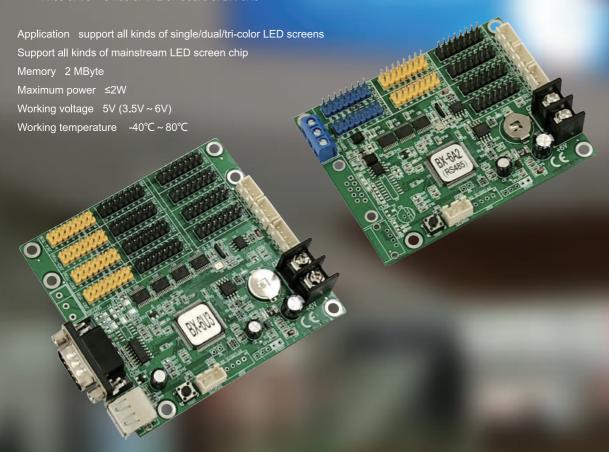


BX-6U /6A series

Support tri-color, compatible for all kinds of full color modules. single core framework, dual core displa, best display performance

- (1) Support tri-color, compatible with all kinds of special module and full color modules
- (2) Support 8 areas /128 programs
- (3) Solve most problems for single-core controllers:

 Text seriously wrong column when shift to left. Screen jitter when move to lift
 and the brightness is seriously reduced when shift lift in long screen, and black screen
- (4) Edit real-time preview, u will get what u see, screen movement speed arbitrary adjusting screen moving more smoothly
- (5) On-board brightness / temperature / temperature and humidity sensor interface seat, On-board infrared remote control head socket
- (6) 2 nos of T75 + 2 nos of T8 + 4 nos of T12 on board of BX-6U0/6U1/6U2 4 nos of T8 + 8 nos of T12 on board of BX-6U3/6U
- (7) 2 nos of T75 + 2 nos of T8 + 4 nos of T12 on board of BX-6A0/6A1/6A2, 4 nos of T8 + 8 nos of T12 on board of BX-6A3



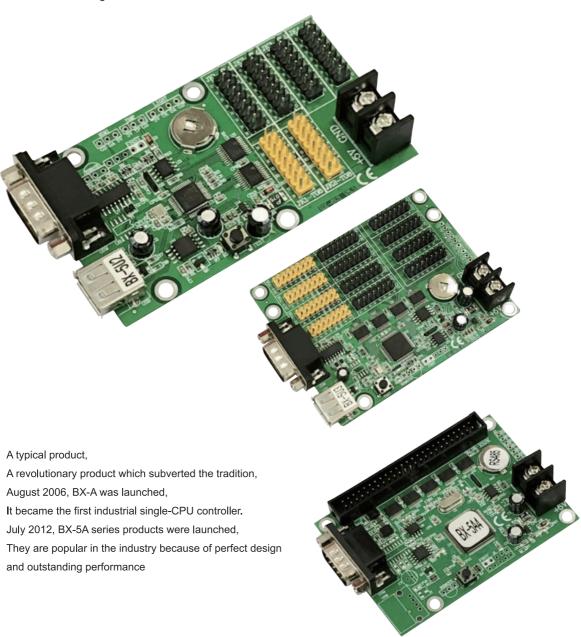
BX-6U series products model: BX-6UT-0812 /6UT-75 /6U0 hot sales card BX-6U1 /6U2 /6U3 /6U (S+U) -YY

BX-6A series products model : BX-6A0 BX-6A1 /6A2 /6A3 (RS485) -YY

BX-5U/5A series

Upload program by U disk, easy to install, free wiring serial communication, easy operation, wide application

The first USB controller in the industry, strong recognition to all kinds of USB driver, BX-5U with more innovation technology, subvert traditional again and create classics



 $\textbf{BX-5U series products model} \colon \text{ BX-5UL}/5\text{UT}/5\text{U0} \quad \text{BX-5U1/5U2/5U3/5U4/5U (S+U)}$

BX-5A series products model: BX-5AT /5A0 BX-5A1 /5A2 /5A3 /5A4 (RS485)



BX-6th generation wireless series

Support tri-color, compatible for all kinds of full color modules. single core framework, dual core display, best display performance



BX-6th wireless GPRS products	BX-6th generation wireless WIFI products		
BX-6A0&G	BX-6WT-0812 antenna on board		
BX-6A1&G	BX-6WT-75 antenna on board		
BX-6A2&G	BX-6W0(WIFI+U) antenna on board		
BX-6A3&G	BX-6W1(WIFI+U) antenna on board		
BX-6K1&G	BX-6W2(WIFI+U) antenna on board		
BX-6K2&G	BX-6W3(WIFI+U) antenna on board		
BX-6K3&G	BX-6W(WIFI+U) antenna on board		
BX-3GPRS wireless module	BX-WIFI (antenna outside)		
	The external antenna is strongly recommended in the networking application, and the signal is better.		

BX-5th generation wireless serie



BX-5th generation wireless products	BX-5AT&G
BX-5th generation wireless products	BX-5A0&G
BX-5AT&WIFI antenna on board	BX-5A2&G
BX-5A0&WIFI antenna on board	BX-5K1&G
BX-5A1&WIFI antenna on board	BX-3GPRS wireless module
BX-5A2&WIFI antenna on board	BX-RF100S wireless sending module
BX-5A3&WIFI antenna on board	BX-RF receiver module (including antenna)
BX-5A4&WIFI antenna on board	BX-5A2&RF wireless controller
BX-WIFI (antenna outside)	
To get a better signage, we suggest antenna outside	BX-5A4&RFwireless controller
when group network use.	Sending power 100MW, stable transfer date within 300 meters



BX-6th generation voice cluster series

BX-6th generation products cluster with voice module, or compatible with BX-YY, support Chinese and English voice broadcast, meet with all kinds of voice project requirements





BX-6th voice cluster series
BX-6U0-YY
BX-6U1-YY (S+U)
BX-6U2-YY (S+U)
BX-6U3-YY (S+U)
BX-6U-YY (S+U)
BX-6A0-YY
BX-6A1-YY (RS485)
BX-6A2-YY (RS485)
BX-6A3-YY (RS485)
BX-6M0-YY (E+U)
BX-6M1-YY (E+U)
BX-6M2-YY (E+U)
BX-6M3-YY (E+U)
BX-6M-YY (E+U)



BX-YY voice broadcast module:

Match with BX-6E/6Q series, support Chinese/English voice broadcast, meet with voice projects requirements

BX-6th generation products support environment detecting function

BX-6th generation products support environment detecting sensors: Wind direction /speed sensor, air mass sensor and noise sensor

BX-6th generation products support wind direction/speed sensor, air quality sensor PM2.5/P10, noise sensor, temperature sensor, temperature/humidity sensor and brightness sensor, and support all most of the environment sensors, it can monitor atmospheric environment all-around.

In the intelligent city, sensors are the very important data for collecting equipment. Those equipment which used for environment detecting is not only the collecting terminal for big data system in this intelligent city, but also offer citizens a reference for going outside. So, show these data on LED screen, all citizens can see it, as to get a widely performance.

Except BX-6Q0/6QL,all BX-6Q series support environment detecting sensor. Also, it's adding to 6th generation products.

Suggest users to get the power with 12V/4A for BX environment detecting sensors.

BX environment detecting sensors all adopt 4 wires mode (12V power supply and RS485 communication port).

4 wires mode: Brown 12V, Black GND, Yellow 485-A and Blue 485-B)

Note: It will burn the sensor if you do not connect in a right way.

environmental monitoring sensor	BX-6th generation support environmental monitoring sensor	
*wind direction sensor BX-FX (485)	BX-6U1 (S+U)	BX-6M0-YY (E+U)
*wind speed sensor BX-FS (485)	BX-6U2 (S+U)	BX-6M1-YY (E+U)
*air mass sensor BX-PM (485)	BX-6U3 (S+U)	BX-6M2-YY (E+U)
*noise sensor BX-ZS (485)	BX-6U (S+U)	BX-6M3-YY (E+U)
temperature sensor	BX-6Q1	BX-6M-YY (E+U)
temp&humidity sensor	BX-6Q2L	BX-6E1
brightness sensor	BX-6Q2	BX-6E2
Infrared remote controller (including the receiver)	BX-6Q3L	BX-6E3
* means environmental monitoring sensor	BX-6Q3	





BX-6th generation hot sales cards

Support tri-color, compatible for all kinds of full color modules. single core framework, dual core display, best display performance

Products model	Control size	Display mode	Display interface
BX-6MT-75			
BX-6WT-75	tri color 16K pixels	1024*16 512*32 256*64 128*128	
BX-6UT-75			
BX-6MT-0812			
BX-6UT-0812	single color /dual color 16K pixels	1024*16 512*32 336*48 256*64	2 nos T8 + 4 nos T12
BX-6WT-0812			_
BX-6W0	single color 32K /dual color 24K		
BX-6U0-YY /6A0-YY	- /tri color 16K pixels	2048*16 1024*32 672*48 512*64	2 nos T75 + 2 nos T8 + 4 nos T12







BX-6UO-YY /6A0-YY

Let the screen speak, we can do it!

support Chinese/English voice broadcast (connect with 5W trumpet) 2 nos T08 + 4 nos T12 + 2 nos T75 on board

BX-6MT-0812 /6MT-75



BX-5th generation hot sales cards

BX-5UT/5AT and BX-5AT&WIFI, height 64 pixels. BX-5MT (E+U) hot sales with best price

products model	control size	display mode	display interface
BX-5MT	single color 16K /dual color 8K pixels	1024*16 512*32	1 nos T8 and 2 nos T12
NEW BX-5AT&WIFI	single color 32K /dual color 16K pixels	1024*16 512*32 336*48 256*64	2 nos T8 and 4 nos T12
BX-5A0&WIFI	single color 32 /dual color 16K pixels	2048*16 1024*32 672*48 512*64	2 nos T8 and 4 nos T12
BX-5UL	single color 10K /dual color 5K pixels	640*16 320*32	1 nos T8 and 2 nos T12
NEW BX-5UT/5AT	single color 16K /dual color 8K pixels	1024*16 512*32 336*48 256*64	2 nos T8 and 4 nos T12
BX-5U0/5A0	single color 16K /dual color 32K pixels	2048*16 1024*32 672*48 512*64	2 nos T8 and 4 nos T12
DX-UL	single color 10K pixels /20 module	640*16 320*32	2 nos T12
DX-UT	single color 16K pixels /32 module	1024*16 512*32	2 nos T12
DX-U0	single color 32K pixels /64 module	2048*16 1024*32 672*48	3 nos T12



BX-5MT (E+U) widely used in logistics, production line projects



New version BX-5AT&WIFI
2 nos T08 + 4 nos T12, maximum height 64 pixels



New version BX-5UT /5AT

2 nos T08 + 4 nos T12, maximum height 64 pixels









Create the full range of industrial LED controller

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