i S User Manual

PixelGate Arma

PXA-P-2E8SPI, PXA-M-2E8SPI, PXD-1-2E8SPI, PXB-1-2E8SPI

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Specifications

Control interface	ArtNet, sACN
Supported LEDs	WS2812, WS2811
LED outputs	8, TTL 3/5V L
Ethernet ports	2 10/100 Base-TX
Ethernet connectors	2 LSA-PLUS [®] connectors
Setup	Web interface
Power supply	5/12/24/48 VDC
Operating Temperature	-40+70°C
IP Rating	IP65 for outdoor use
Dimensions, mm	115(D) x 55(H) x 65(W)

Safe operation

To ensure safe and reliable operation of the devices, please observe the following requirements Use the device only for its intended purpose Do not use devices that show signs of malfunctioning Avoid strong physical impacts on the device Protect devices and cables from contact with corrosive liquids Whenever a fault is detected in the device, please contact the manufacturer.

General information

«PixelGate Arma» is a pixel strip controller for pixel mapped projects at indoor and outdoor installations when you need to convert ArtNet (DMX over Ethernet) or sACN data to 1 or 2 wire interface. IP65 case makes the device resistant to water, dust, fog, and smoke.

Advantages

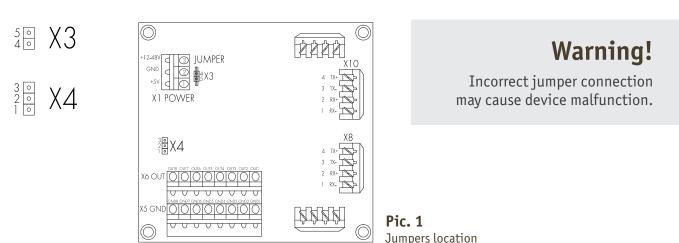
Die-cast, waterproof metal case No buttons Time-tested in severe weather conditions Integrated splitter 2 Ethernet ports for chaining the devices Warning! The device uses hazardous voltage AC 100-250V

Installation

- 1. Ensure the device has no damage due to transportation
- 2. Remove device's lid after unscrewing the four screws
- 3. When using 12-48V power source, set the jumper at X3 connector. When using 5V power source, jumper is

not installed

- 4. When using 5V output signal: set the jumper at 1 and 2 pins of X4 connector
- When using 3.3V output signal: set the jumper at 2 and 3 pins of X4 connector
- 5. Connect Ethernet input and output to X10 and X8 sockets respectively
- 6. Connect LED stripes control and ground signals to X6 and X5 terminal blocks respectively
- 7. Connect Power supply to X1 terminal block
- 8. Set lid back and tighten all screws



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Warning!

Before mounting and turning on the power,you need to make sure protective ground cable connections and places of their connection

Web interface settings

PixelGate Arma devices support configuring most of their parameters through the web interface using HTTP protocol (TCP port 80).

Device settings

To access the settings page enter the IP address of the device to the browser. Main settings page of the Pixelate Arma device will be displayed.

	P	PixelGate Control	Pane	l i i i i i i i i i i i i i i i i i i i
Device Se	ttings	Network Settin	gs	Firmware Update
		Device Setting	js	
Device Name		PixelGate		
Device Descri	ption	PixelGate, 8-output		
Output protoco	ol	WS2812 -		
Color order		R-G-B 🔻		
Network proto	col	ArtNet 👻		
Channels settings				
Channel	Subnet	* 16 + Universe		Start Address
Channel 1	0		1	
Channel 1	0		1	
Channel 2	1		1	
onumor 2	1		1	
Channel 3	2		1	
	2		1	
Channel 4	3		1	
	3		1	
Channel 5	4		1	
	4		1	
Channel 6	5		1	
	5		1	
Channel 7	6		1	
	6		1	
Channel 8	7		1	
	/	0		
		Save		

Pic. 2 Device settings

Device settings:	
Device name	Editable device name (up to 18 characters)
Device description	Editable device description (up to 64 characters)
Output protocol	Output protocol signal (WS2812 or WS2811)
Color order	Sequence of colors in LED stripe
Network protocol	Type of Network protocol (ArtNET or sACN)
Channels settings:	

Channel	Number of channel (1-8)
Subnet*16+ Universe	Subnet and Universe number(for ArtNET) or Universe number (for sACN)
Start Address	Starting DMX address for first and second universe in the channel

For each output channel you can specify two universe for output. If the LED stripe requires to control more than 512 DMX channels, device puts the data of second universe after channel 512 of first universe, providing maximum number of 1024 DMX channels.

To save the changes in device settings, click «Save settings».

Network settings

To edit the network settings of the device, click on the link "Network".

PixelGate Control Panel			
Device Settings	Networ	k Settings	Firmware Update
Item		Setting	
Static IP Address		2.0.0.138	
Subnet Mask		255.0.0.0	
Default Gateway		2.0.0.1	
Primary DNS Server		0.0.0	
Secondary DNS Server		0.0.0.0	
	Save	e settings	

Static IP Address - view/edit network address of the device
Subnet Mask - view/edit IP subnetwork mask
Default Gateway - view/edit gateway IP address
Primary DNS Settings - primary DNS address
Secondary DNS Settings - secondary DNS address

To save the changes in network settings, click **«Save settings»**.

Firmware update

PixelGate Control Panel		
Device Settings	Network Settings	Firmware Update
	rrent Firmware Revision: Upload new firmware	

For profile operations, click on the link "Firmware".

Browse - browse for new firmware's file

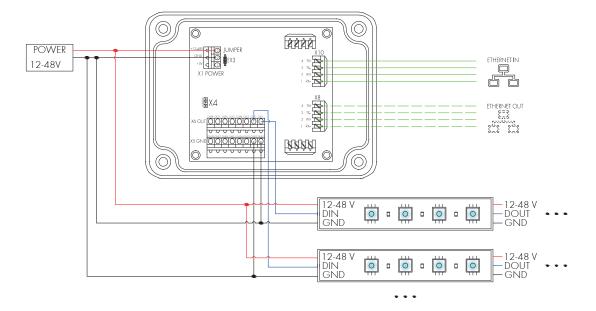
To start updating press button **«Upload firmware»**.

Warning!

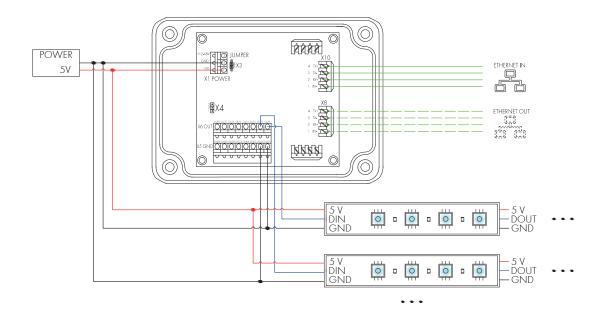
To update firmware of the device, click on the link "Firmware"

Connection scheme

Power supply 12V



Power supply 5V



Technical maintenance

Maintenance the device, search and troubleshooting should be performed by service personnel. The device should be free from dirt, dents, connecting cables and wires must be intact and securely fastened.

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