

eDMX4 DIN

Interface



USER MANUAL

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1. INTRODUCTION

Thanks for purchasing a DMXking.com product. Our aim is to bring you high quality products with great features we know you'll appreciate. We ship only what's required which is why there's no CD or printed manual in the box, this is part of our commitment to minimizing environmental impact which also translates into end user savings.

Model	Highlights
eDMX4 DIN	4 Universe DMX512-A output or input. RDM functionality. Merge 2 ArtNet/sACN streams per channel.

MAIN FEATURES

- Supported operating systems: Any with Ethernet networking support. Windows, MAC OS, Linux, BSD...
- Ethernet 10/100Mbps interface with Auto MDI-X
- Wide input power range 8-28Vdc
- DMX512 Out or DMX512 In functionality selectable on each port.
- Art-Net broadcast, Art-Net II & III unicast, sACN/E1.31 Multicast and sACN Unicast support.
- E1.20 RDM over Art-Net support.
- User configuration of Art-Net Node short and long names.
- Available with RJ45 or screw terminal DMX connections.
- Fully compatible with ***ALL*** software and hardware that supports Art-Net and E1.31 sACN protocols.
- Configuration utility (Windows platform only .NET 3.5 contact support for other OS).
- Firmware update through configuration utility.

2. EXTERIOR VIEW

FRONT VIEW



Network 10/100Mbps RJ45 socket. Pluggable terminal block for 8-28Vdc power input. Four RJ45 sockets or 3way pluggable terminal block connectors for DMX512. Optional DIN rail mount brackets.

LED	Indication
Protocol	Protocol activity. Flash Yellow = Art-Net/sACN. Solid Yellow = Firmware Update mode.
Network	Network activity. Green = Link, Flash = Traffic

3. DEFAULT CONFIGURATION

All eDMX1/4 DIN units ship with default IP address settings. Please reconfigure for your requirements before use!

Parameter	Default Setting
IP Address	192.168.0.112
Subnet Mask	255.255.255.0
Default Gateway	192.168.0.254

DMX512 and Art-Net configuration parameters are also configured with default values.

Parameter	Default Setting
Network Mode	Custom IP address
*Operation Mode	DMX Out
*DMX Universe	1-4 [Net 00, Subnet 0, Universe 0-3]
	Note sACN Universe 1 = Art-Net 00:0:0
*Merge Mode/Timeout all sources	HTP, Timeout unchecked
*DMX512 Update Rate	40 [DMX512 frames per second]
*RDM Packet Spacing	1/20s
*RDM Discovery Period	Os [RDM Disabled]
*Broadcast Threshold	0 [Force Art-Net broadcast]. Don't change this unless you want Art-Net II/III unicast on DMX In ports.
*Recall DMX Snapshot at startup	Recall unchecked

*These parameters are per port.

4. CONFIGURATION UTILITY

The eDMX Configuration utility provides a simple interface to all device parameters. Typically these are set once during initial configuration and left untouched. If you are not confident in setting up network IP Address, Subnet Mask and Default Gateway parameters please get in touch with DMXking.com support and we'll walk you through the process.

Special note: Once you've finished configuring your eDMX product close the application before starting your lighting control application if it's run from the same computer.

NETWORK TAB

le View Advance	d								
eDMX Devices		Network Port A P	ort B Port C Por	t D					
IP Address Name		MAC Address		Device IP	Address				
192.168.0.173 eDMX	4 RDM	00:1A:19:0	0:91:04	192.1	68.0.173				
		Network Settings			Network Mode				
		IP Address	192 168 0	173	0 2.106.145.4				
		Subnet Mask	255 255 25	5 0	 10.106.145.4 Custom IP 				
					 Custom IP DHCP 				
		Default Gateway	192 168 0	254	UncP				
		Hardware Informati	on	Commands	5				
		Firmware Version Device eDMX4	2.5 RDM	Update Network Setting					
		DMXking.com e	DMX4 RDM	Fir	mware Update				
		Network Adapter IF	Address	Network A	dapter Subnet Mask				
Search For F	evices	192.168.0.102	•	255.255	5.255.0				
Messages	01000								
Time	Туре	Source	ArtNet Messages	3					
11/12/2013 14:34:48	Received	192.168.0.173	SettingsReply						
11/12/2013 14:34:48	Transmitted	192.168.0.102	Settings						
11/12/2013 14:34:43	Received	192.168.0.173	PollReply						
11/10/0010 14.04.40	T	100 100 0 100	D_II						

Before starting the eDMX Configuration utility please ensure your computer has appropriate IPv4 network settings, for example IP 192.168.0.100 Subnet 255.255.255.0 Gateway 192.168.0.254.

Upon startup eDMX devices on the same subnet are automatically detected and displayed by IP address. You can re-poll for new devices or just check the communications is okay by clicking "Search For Devices".

Click on the desired device's IP address in the list and all Settings will be retrieved. Note that if no response is received the settings will be greyed out. An activity box shows both transmitted and received messages to help with diagnosing communication issues. If your network configuration has multiple adapters and or IP addresses you need to select the same network range as the eDMX from the Network Adapter IP Address dropdown box and also ensure the subnet mask is appropriate.

Make changes to the applicable settings on the Network tab then click "Update Network Settings". If you select the Art-Net 2.x.y.z or 10.x.y.z addressing scheme please note the custom IP address will still be valid during initial boot stages (i.e. firmware updates are always on the Network Settings address, not 2.x.y.z or 10.x.y.z) The eDMX unit will reboot after network any settings changes.

Selecting "Firmware Update" will prompt for an appropriate firmware file and upload upon confirmation. A built in boot loader permits updating of the eDMX firmware. Note only signed encrypted firmware files from DMXking.com can be successfully loaded to ensure you won't brick your device by accident. Future firmware releases for this product will be in the form 0083-500-VersionMajor.VersionMinor.enc

The Port A - D tabs provide access to the DMX512 port parameters.

	DMX	ing.com e	DMX C	onfigu	iration	v1.8	_ 0	
le View Advanced								
DMX Devices		Network	Port A	Port B	Port C	Port D		
IP Address Name		1	ArtNet Set					_
192.168.0.172 eDMX4		-	Update F	-	-		+ 40hz	
			Broadcas	t Thresh	old -)	+ 0	
			Merge Mo ● Highe ○ Lates ▼ Timeo	est Takes t Takes I	^p riority (L		Operation Mode DMX In Art-Net DMX In sACN DMX Out	
		-F	RDM Sett	ings			0	
			Discoveŋ	y Period	-	Ū	+ 5s	
			Packet S	pacing	-	Ū	+ 1 1/20s	
			Reca	II DMX sr	napshot	at startup	Snapshot DMX	
			Upda	te		Universe -	Art-Net Port-Address	
Search For Dev	ices]						
Messages								
Time	Туре	Source		Arti	Vet Mess	ages		
26/05/2015 1:21:31 p.m.	Received	192,168.0	.172	Pol	Reply	-		
26/05/2015 1:21:31 p.m.	Received	192 168 0						
26/05/2015 1:21:11 p.m.	Received	192,168.0						
20/05/2010 1.21.11 p.m.	Destined	102.100.0		n_1	Reply			

Make changes to the applicable Port settings then click "Update".

Parameter	Usage
MAC Address	Factory programmed Ethernet MAC address
INAC AUGIESS	
IP Address	IPv4 network address
Subnet Mask	Subnet mask, typically 255.0.0.0, 255.255.0.0 or 255.255.255.0 for class A,B & C respectively
Default Gateway	Address of network gateway (router) for communications beyond local subnet
Network Mode	Custom IP, Art-Net 2.x.y.z , Art-Net 10.x.y.z
Operation Mode	DMX In Art-Net, DMX In sACN (multicast only), DMX Out (both Art-Net and sACN simultaneously). eDMX4 TX models only support DMX Out.
DMX Universe	sACN 1-63999 which is translated to an Art-Net Port-Address (Net:Sub:Uni). Setting DMX Universe = 1 results in sACN Universe = 1 and Art-Net 00:0:0 (Universe 1 = Art-Net Universe 0)
Merge Mode	HTP (Highest Takes Precedence - dimmers), LTP (Last Takes Precedence – moving lights). Timeout all sources: Last Art-Net or sACN stream source if lost will timeout DMX output.
Update Rate	DMX512 output frame rate/frequency
RDM Packet Spacing	Number of 1/20sec intervals enforced minimum between RDM messages on DMX line
RDM Discovery Period	Number of seconds between internally initiated RDM Discovery attempt. Setting Discovery Period = 0s will disable RDM which is the default.
Broadcast Threshold	0 = Force Art-Net broadcast mode, > 0 Art-Net II/III unicast.
Recall DMX snapshot at startup	Recall snapshot scene at power on and output until Art-Net or sACN source received. Snapshot DMX button records current DMX output to snapshot memory.

DMX DISPLAY FUNCTION

Select **View | DMX Display** for a simple DMX512 test utility. To generate an Art-Net output stream click Transmit then select one of the 6 Transmit Options and change Art-Net Universe as applicable. When in Manual mode you can click on any of the channels (represented by small boxes with hexadecimal channel level inside) to set ON level and double click to set zero. The mouse scroll wheel adjusts a channel by a defined increment. Channel number increases left to right, top to bottom and the roaming tool tip provides information about a specific channel.

Both the ON level and mouse wheel step can be set by right clicking anywhere within the black display area. Number of channels transmitted and the refresh rate can be adjusted using the applicable sliders adjacent to transmit options.

DMXking.com eDMX Configuration v	.5	2 DMX Data - 192.168.0.102	X
File View Advanced			
eDMX Devices	Network Port A	00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00
IP Address Name			00 00 00 00
192.168.0.171 eDMX1	ArtNet Settings		
132.100.0.171 EDMA1	Update Rate		
			00 00 00 00
	Broadcast Threshold + 0	. FF 00 00 FF 00 FF 00 FF 00 FF 00 00 FF 00 FF 00 00	00 00 00 00
	Merge Mode Operation Mode		00 00 00 00
	0.000	FF 00 00	
	 Highest Takes Priority (HTP) DMX in sACN 		
	Latest Takes Priority (LTP) DMX Out		00 00 00 00
	RDM Settings	00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00
			00 00 00 00
	Discovery Period + 10s		00 00 00 00
	Packet Spacing + 1 1/20s	والمحتمة المحار	
			00 00 00 00
	Universe	00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00
	Update 1 00 0 0		00 00 00 00
Search For Devices			
Messages			00 00 00 00
Time Type	Source ArtNet Messages	Transmit Options	00000
11/12/2013 11:09:50 Received	192.168.0.171 SettingsReply	Receive Manual All 0 All 255 Alternate Ramp Chase Number Channels -	+ 512
11/12/2013 11:09:50 Transmittee	192.168.0.102 Settings	Left click to set value, right click to select value and mouse wheel step Update Rate	
11/12/2013 11:09:38 Received	192.168.0.171 PolReply	Transmit Left click to set value, right click to set value and mouse wheel step	
11/12/2012 11.00.20 Deceived	100 100 0 171 Dell	Art-Net Port-Address 00 V	▼ 0 ▼

Changing to Receive mode will display the selected Art-Net universe number with merged streams if more than 1 is present. Note Art-Net II unicast is not supported meaning only Art-Net broadcast streams are displayed.

e View Advanced						_		_	_	_			_		_	_		_	_		_		_				_
DMX Devices	Netw	vork Port A			FF FF	FF	FF FF	FF	FF	FF	FF FI	F FF	FF	FF F	F FF	00	00 0	00 0	00	00 00	00 00	00	00 (00 00	00	00 00	0
P Address Name		ArtNet Setting	s		00 00	00	00 00	00	00 00	00	00 00	00 0	00	00 0	0 00	00	00 0	00 0	00	00 00	00 00	00	00 0	00 00	00	00 00	0
192.168.0.171 eDMX1		Update Rate		0 + 40hz	20 20	20	20 20	20	20 20	00	00 00	00 0	00	00 0	0 00	00	00 0	00 0	00	00 00	00 00	00	00 0	00 00	00	00 00	0
		Update Rate		U 🛨 40hz	40 40		10 40	40 4																00 00		00 0	0
		Broadcast T	nreshold	+ 0	40 40																			00 00		00 0	0
		Merge Mode		Operation Mode	00 00		00 00		00 00		00 00													00 00			0
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	akes Priority (HTP)	ODMX In Art-Net	00 00	00	00 00																	00 00			
		State Street	kes Priority (LTP)	DMX In sACN	00 00		00 00		00 00		00 00			_	_			_	_	_	_	-	_	00 00		_	
				OMX Out																							
		RDM Setting:			00 00		00 00																	00 00			
		Discovery P	eriod 🕞 💭 boire	+ 10s	00 00		00 00																	00 00			
				00 00	00	00 00	00	00 00	00	00 0	00 0	00	00 0	0 00	00	00 0	00 0	00	00 00	00 00	00	00 0	00 00	00	00 0	0	
		Packet Space	ing 🕞 🖓 —	+ 1 1/20s	00 00	00	00 00	00	00 00	00	00 00	00 0	00	00 0	0 00	00	00 0	00 0	00	00 00	00 00	00	00 (00 00	00	00 00	0
			Univers	e	00 00	00	00 00	00	00 00	00	00 00	00 0	00	00 0	0 00	00	00 0	00 0	00	00 00	0 00	00	00 0	00 00	00	00 0	0
		Update	1	Art-Net Port-Address	00 00	00	00 00																	00 00			0
Search For Devic		6			00 00		_								_			_			_			00 00			0
Selicition Devic					00 00																			00 00			
essages														00	0 00		00										
Time	Type Source	e	ArtNet Messages	*		R	eceive li	nformati	on														-				
11/12/2013 11:31:38		68.0.171	PollReply		Receive	F	Receive	Rate	1hz											Takes				P			
1/12/2013 11:31:38		68.0.171	Poll				Receive		512									۲	Highe	st Take	s Priori	JY (HTH	1	192.168.	.0.171		
11/12/2013 11:31:18		68.0.171	PollReply	-	Transmi													1	00 •	0	+ (0 -	1				

The DMX Display utility works with any manufacturers Art-Net hardware and can be useful for diagnostics and simple testing of DMX512 fixtures.

ART-NET NODE NAME

The Art-Net protocol supports device naming which can make larger installations more manageable. Both Short Name (17 characters) and Long Name (63 characters) for an eDMX Device can be modified using the **Advanced | Edit Node Name** dialog.

ile View	Advanced								
eDMX Device	Edit N	ode Name	• Short						
IP Address	Factor	y Reset	 Long 			578	Device IP	Address	-
192.168.0.17	71 eDMX1		00:1A:19	00:23:	14		192.1	68.0.171	
			Network Setting	IS				Network Mode	
			IP Address	192	168	0	171	0 2.105.35.20	
			Subnet Mask	255	255	255	0	 10.105.35.20 Custom IP 	
			Default Gatewa	ay 192	168	0	254	O DHCP	
E	dit Art-Net N	lode Name			x		Command	s	
	Short Name	(17 character m	ax)		ок		Updat	e Network Settings	
				C	ancel		Fi	mware Update	
							Network /	Adapter Subnet Mask	
	eDMX1						255.25	5.255.0	
Messages									
		Туре	Source	ArtNe	et Mess	ages			•
Time	10.00.01	Received	192.168.0.171	PollR	eply				
Time 11/12/2013	13:23:01			Poll					
		Received	192.168.0.171	Poll					
11/12/2013	13:23:01	Received Received	192.168.0.171 192.168.0.171	Poll	eply				

FACTORY RESET

This is a last resort option if for whatever reason incorrect or forgotten device network settings have rendered your device unusable. A word of warning – this function will factory reset ***ALL*** eDMX devices on your network so it's critical to separate off the device requiring reset. We recommend directly connecting a computer and eDMX device using a crossover cable so there's no chance of additional eDMX devices accidentally being reset too.

Several warnings are presented before the command is sent.

5. PORTS, MERGING, PRIORITY AND DMX INPUT

PORTS AND MERGING

Each DMX Port is fully independent which allows for configurations including setting multiple ports to the same universe.

eDMX Products are capable of several advanced merging and stream selection functions usually only found on high priced equipment. Support for both HTP (Highest Takes Precedence) and LTP (Latest Takes Precedence) merging of 2 sources producing a single DMX512 output thus permitting 2 controllers to co-exist for 1 lighting rig. To achieve DMX stream merging simply send 2 Art-Net or sACN streams with the same Universe ID and configure the applicable merge scheme HTP or LTP. If the number of sources exceeds 2 only the first 2 will be processed and all others are dropped. Possible merging sources are:

Source	Notes
Art-Net I, II or 3	
sACN / E1.31	Only sACN sources of the same Priority will be HTP or LTP merged.
DMX In	Configure DMX In port universe to the same as DMX Out port universe

SUPPORTED MERGING COMBINATIONS

Source 1	Source 2	Notes
Art-Net	Art-Net	Sources are timed out 10 seconds after last received frame.
sACN / E1.31	sACN / E1.31	Sources will end immediately upon sACN stream termination flag, otherwise 10 second timeout after last received frame.
Art-Net	sACN / E1.31	Art-Net source timed out 10 seconds after last received frame, sACN stream termination flag otherwise 10 second timeout after last received frame.
DMX In	Art-Net	Merge external DMX512 source (i.e. console) with incoming Art-Net stream.
DMX In	sACN / E1.31	Merge external DMX512 source (i.e. console) with incoming sACN stream.
DMX In (1)	DMX In (2)	Merge 2 external DMX512 sources.

SACN / E1.31 PRIORITY

At any time if a higher priority sACN stream is received it will take over control a DMX Out channel regardless of other incoming streams or merging. When an sACN stream is stopped gracefully via a stream terminate message the eDMX port will immediately revert to whatever other sources are present, otherwise the default stream timeout of 10 seconds applies. If you want to merge 2 sACN streams together they must be of the same priority.

DMX512 IN - UNICAST / BROADCAST / MULTICAST

When you feed a DMX512 signal into an eDMX Port configured as **DMX In Art-Net** the following will determine Art-Net unicast or broadcast:

- 1. If Broadcast Threshold = 0 the frame is always broadcast on the IP subnet.
- 2. If Broadcast Threshold > 0 and number of detected Art-Net II/3 devices "subscribed" to that universe is less than the threshold the frame is unicast to each device.
- 3. If Broadcast Threshold > 0 and the number of detected Art-Net II/3 devices "subscribed" to that universe is greater than the threshold the frame is broadcast on the subnet.
- 4. If Broadcast Threshold > 0 and zero Art-Net II/3 devices are "subscribed" to that universe the frame is broadcast on the subnet.

So as you can see there are multiple ways broadcast could occur. The implementation is done like this to ensure compatibility with mixed Art-Net I/II/3 device networks but still permit unicast only when Art-Net II/III devices are used exclusively.

For **DMX In sACN** at present only multicast frames will be generated owing to a lack of sACN device discovery standard.

6. COMPATIBLE SOFTWARE

Art-Net and DMX512 are the most commonly used lighting control protocols with roots in simple theatrical light dimming. These days almost any lighting or stage effect equipment may be controlled using DMX512 (with explicit exclusion of anything involving potentially dangerous operations such as pyrotechnics) including moving lights, LED screens, fog machines and laser displays.

The DMXking.com eDMX4 DIN unit is a 4 universe Art-Net device designed for use with computer based show control software. It replaces an entire lighting console allowing the user to perform sophisticated shows with little more than a laptop. There are many free and commercial software packages available and by selecting Art-Net as your DMX device compatibility is guaranteed.

The following tables are by no means a definitive guide to Art-Net compatible software however it's a good starting point.

CONTROLLERS

LightFactory	http://www.lifact.com/
Venue Magic	http://www.venuemagic.com/
FreeStyler	http://www.freestylerdmx.be/
MagicQ – ChamSys (Windows, Mac, Linux)	http://www.chamsys.co.uk/download
LumiDMX	http://www.lumidmx.com/
LX Series (Mac OS-X)	http://lx.claudeheintzdesign.com/
Q Lighting Controller+ (Linux, Mac OS-X, Windows)	http://qlcplus.sourceforge.net/
LSC Clarity (Windows, Mac OS-X)	http://www.lsclighting.com/products/clarity-control- system/clarity-for-pcmac
Max – Cycling 74 (Windows, OS-X)	http://cycling74.com/products/maxmspjitter/
White Cat Lighting Board	http://www.le-chat-noir-numerique.fr/
TJShow	http://www.tjshow.com/
MADRIX – LED Lighting Control	http://www.madrix.com/
DMXControl	http://www.dmxcontrol.org/
vvv – a multipurpose toolkit	http://vvvv.org/
Enttec D-Pro	http://www.enttec.com/
D::Light	http://www.nicole-banana.com/
Chameleon (Mac)	http://www.maclightingsoftware.com/
Lightjams – Live interactive control MIDI / TUIO	http://www.lightjams.com/
StageSoft – CHROMA	http://www.stagesoft.com/chroma.html
Martin M-PC Free Edition	http://www.martin.com/controllersupport/m- pc_software.html
ShowMagic	http://www.showmagic.com/

MEDIA SERVERS / VJ		
ArKaos MediaMaster Pro, MediaMasterExpress, Media Server	http://www.arkaos.net/category/index.php?catid=2	
Resolume Avenue 3	http://www.resolume.com/	
MXWendler FXServer	http://www.mxwendler.net/Product.4.0.html	
Kineme Art-Net Tools for Quartz Composer	http://kineme.net/product/ArtNetTools	
TroikaTronix – Isadora	http://troikatronix.com/isadora.html	

VISUALIZERS

Capture	http://www.capturesweden.com/
WYSIWYG	http://www.cast-soft.com/
ESP Vision	http://www.espvision.com/
SoftPlot	http://www.stageresearch.com/products/SoftPlot9/SoftPlot9.aspx
LD Assistant	http://www.ldassistant.com/

MOBILE APPS

Luminair (iPhone/iPad)	http://www.synthe-fx.com/products/luminair_	
LightingPad (iPhone/iPad)	http://www.alcorn.com/products/lightingpad/index.html	
ArtNet DMX Remote (iOS)	http://lightning-dmxcontrol.com/	
LED Remote (iOS)	http://arminarzani.com/en/	

7. UPDATING FIRMWARE

A built in boot loader permits updating of the eDMX4 DIN firmware. Note only signed encrypted firmware files from DMXking.com can be successfully loaded.

Firmware files are distributed with the eDMX Configuration Utility and are copied automatically to the installation directory. If a later firmware version hasn't yet been packaged with the utility you can copy the .enc file into the installation directory manually.

Future firmware releases for this product will be in the form 0093-501-[VersionMajor].[VersionMinor].enc

8. TECHNICAL SPECIFICATIONS

- Dimensions: 70x68x35mm (WxHxD)
- Weight: 0.07kg
- DC Power input 7-28Vdc, 2.5W max.
- DMX512 connector: RJ45 or 3 way terminal block
- ANSI E1.11-2008, E1.20-2006 and E1.31-2009 compliant
- Internal DMX512-A line biasing termination as per ANSI E1.20 RDM requirements
- Art-Net, Art-Net II, Art-Net III and ANSI E1.31 / sACN support
- Both HTP and LTP merging of 2 Art-Net streams per port
- IPv4 Addressing
- DMX512 Frame Rate: Adjustable per port
- Operating temperature 0°C to 70°C

9. WARRANTY

DMXKING.COM HARDWARE LIMITED WARRANTY

What is covered

This warranty covers any defects in materials or workmanship with the exceptions stated below.

How long coverage lasts

This warranty runs for one year from the date of shipment from an authorized DMXking.com distributor.

What is not covered

Failure due to operator error or incorrect application of product. Opening the unit voids the warranty.

What DMXking.com will do

DMXking.com will repair or replace, at its sole discretion, the defective hardware. Return shipping costs from our service facility in New Zealand shall be free of charge.

How to obtain service

Contact DMXking.com directly by email sales@dmxking.com

10. DECLARATIONS (FCC & CE)

FEDERAL COMMUNICATIONS COMMISSION (FCC) DECLARATION OF CONFORMITY

Responsible Party:	JPK Systems Limited
	PO Box 493
	Pukekohe 2340
	New Zealand

declares that the product eDMX4 DIN complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

EEC DECLARATION

We

JPK Systems Limited PO Box 493 Pukekohe 2340 New Zealand

declare under our sole responsibility that our product eDMX4 DIN conforms to the requirements of Council Directives 89/336/EEC and 73/23/EEC and therefore complies with the requirements of Council Directive 73/23/EEC, (The Low Voltage Directive) on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits as amended by Article 13 of Council Directive 93/68/EEC

- EN 55103-1
- EN 55103-2
- EN 60065

Signed: Jason Kyle

Date: 1 August 2014

Position: Managing Director