



# NiGMa Matrix Controller

The ETL NiGMa Matrix Controller is a stand-alone unit designed to control the range of ETL Enigma switch matrix (router) systems. The controller is connected to one of the (master) matrix CPU's via a RS232 serial or RJ45 ethernet port and. Matrix routing and diagnostics information are available on the Controller's front screen (for CPU 1).



*Picture of NiGMa Matrix Controller*

Routing can be changed from the Controller and the touchscreen also allows updates of aliases and other admin functions.

Monitoring and control of the matrix is very simple via a VGA touchscreen or HMI similar to that installed in the master module of a NiGMa matrix model. This runs the same firmware with a slightly different configuration.

The front panel has a single USB port for updating the firmware.

ETL Model Number – 21143



**RESILIENCE**

**FLEXIBILITY**

**RF PERFORMANCE**

# Technical Specifications



## • Key Features

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- For operation with all ETL NiGMA matrices
- Quasi redundant interaction with on-board matrix control board
- Retains settings if power/comms with matrix fails
- Dry contact volt free alarm port for PSU failure

## • System Control

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Remote Control	RS232/485 serial or RJ45 Ethernet to NiGMA matrices
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## • Environmental

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Operating temperature	0 to 45°C
Location	Indoor use only
Storage Temperature	-20°C to +75°C
Humidity	85% Non-condensing

## • Physical

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Dimensions	4U high x 350mm deep x 19" wide
Colour	White 00-E-55 Semi-Gloss Front Panel

## • Power

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AC Power	85-264Vac 50/60Hz
PSU	Dual
PSU Redundancy	Yes

ETL Systems develop, design and manufacture specialist equipment for satellite ground stations. For a fuller description of the ETL product range, please visit our website. This range can be used as the basis to meet your specific demands.

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