

Gate DMX

Overview

The most compact 4 port sACN/E1.31 and Art-Net to DMX512 node available. DMX512 IN/OUT independently configurable ports with advanced stream merging and built in show recording for standalone operation.

This Gate translates Art-Net 00:0:0 to Universe 1 (i.e. offset by 1) so there is an easy mapping between sACN/E1.31 and Art-Net.

- USB DMX functionality in addition to Network ArtNet/sACN
- 4x DMX512 OUT or DMX512 IN non-isolated
- Merge 2 incoming Art-Net streams per output channel with both HTP and LTP options
- Merge Art-Net + DMX input to DMX output(s)
- Merge 2x DMX input to DMX output(s)
- sACN Priority takeover for multi-tier controller arrangements
- Recording and playback of shows to microSD card (not supplied)
- Static scene recording and playback without requiring SD card
- Standalone scene/show playback without computer or network connection
- Real time clock with battery (not supplied) backup for intermittent power standalone playback
- Art-Net I, II, 3 & 4 + sACN/E1.31 protocol support including universe synchronization
- Static or DHCP IPv4 networking
- Integrated DIN rail and wall mount with OEM board also available for integration into your designs

Technology

- Internal DMX512-A line biasing termination as per ANSI E1.20 RDM requirements
- ANSI E1.20 RDM compliant with RD M over Art-Net. Not available in firmware 4.0
- Universe Sync Art-Net, sACN and Madrix Post Sync.
- Both HTP and LTP merging of 2 Art-Net streams per port
- sACN Priority
- Internal merging capability with DMX In and DMX Out ports on same Universe.
- IPv4 Addressing
- IGMPv2 for multicast network management
- DMX512 Frame Rate: Adjustable per port

Wiring & connections

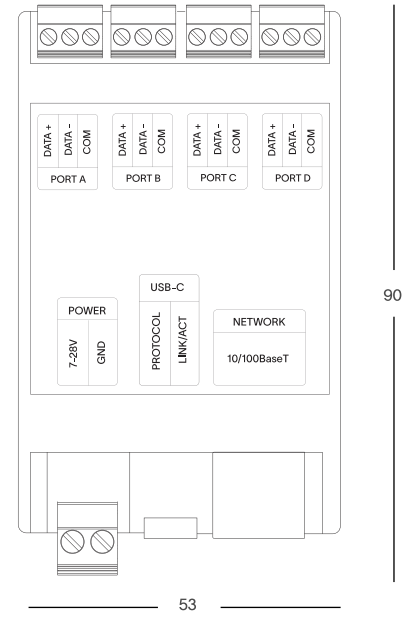
Network	10/100Mbps RJ45 socket.
Power input	Pluggable 2-way 5mm pitch terminal block
DMX512	Four 3-way 3.5mm pitch pluggable terminal block connectors. Ports not isolated.
Network	10/100Mbps RJ45 socket.
Ethernet	10/100Mbps Auto MDI-X port.

All units ship with default IP address settings. Please reconfigure network settings as required before use.

Default settings

IP address	192.168.0.112
Subnet mask	255.255.255.0
Default gateway	192.168.0.254
IGMPv2 unsolicited report	Unchecked
Network mode	Static IP address
Async update rate	40 [DMX512 frames per second]. Universe Sync will override.
Port operation mode	DMX-OUT
Timeout all sources	Unchecked
Fixed IP	0.0.0.0 [Only for DMX IN – Unicast to 1 IP address only]
Merge mode	0
Full DMX frame	HTP
*Broadcast threshold	10 [Art-Net II/3/4 unicast up to 10 nodes]. Set to 0 for Art-Net I broadcast on DMX IN ports.
Timeout all sources	192.168.0.254
Unicast IP	[DMX-IN] 0.0.0.0
sACN Priority	[DMX-IN] 100
RDM discovery period [DMX-OUT]	0s / RDM Disabled
RDM packet spacing [DMX-OUT]	1/20s
DMX-OUT failsafe mode	Hold Last
Recall DMX snapshot at startup	Unchecked
DMX512 universe	1-4 [Net 00, Subnet 0, Universe 0-3] Note: sACN Universe 1 = Art-Net 00:0:0

*Global threshold for all DMX-IN ports, configured only in Port A settings tab.



All measures indicated in mm

Power

Input voltage	7 - 28 Vdc 2.5W max
Current Consumption	12 Vdc 250mA
Power input	USB-C

Dimensions

Width	53 mm
Depth	32 mm
Height	90 mm
Weight	75

Indicators

Protocol	Protocol activity Flash Red = Art-Net/sACN. Solid Red = Bootloader mode
Link/act	Network activity. Green = Link Flash = Traffic
Port A	DMX512 Port A TX/RX activity
Port B	DMX512 Port B TX/RX activity
Port C	DMX512 Port C TX/RX activity
Port D	DMX512 Port D TX/RX activity

Environmental

Operating temperature	-10°C to 50°C
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System architecture

