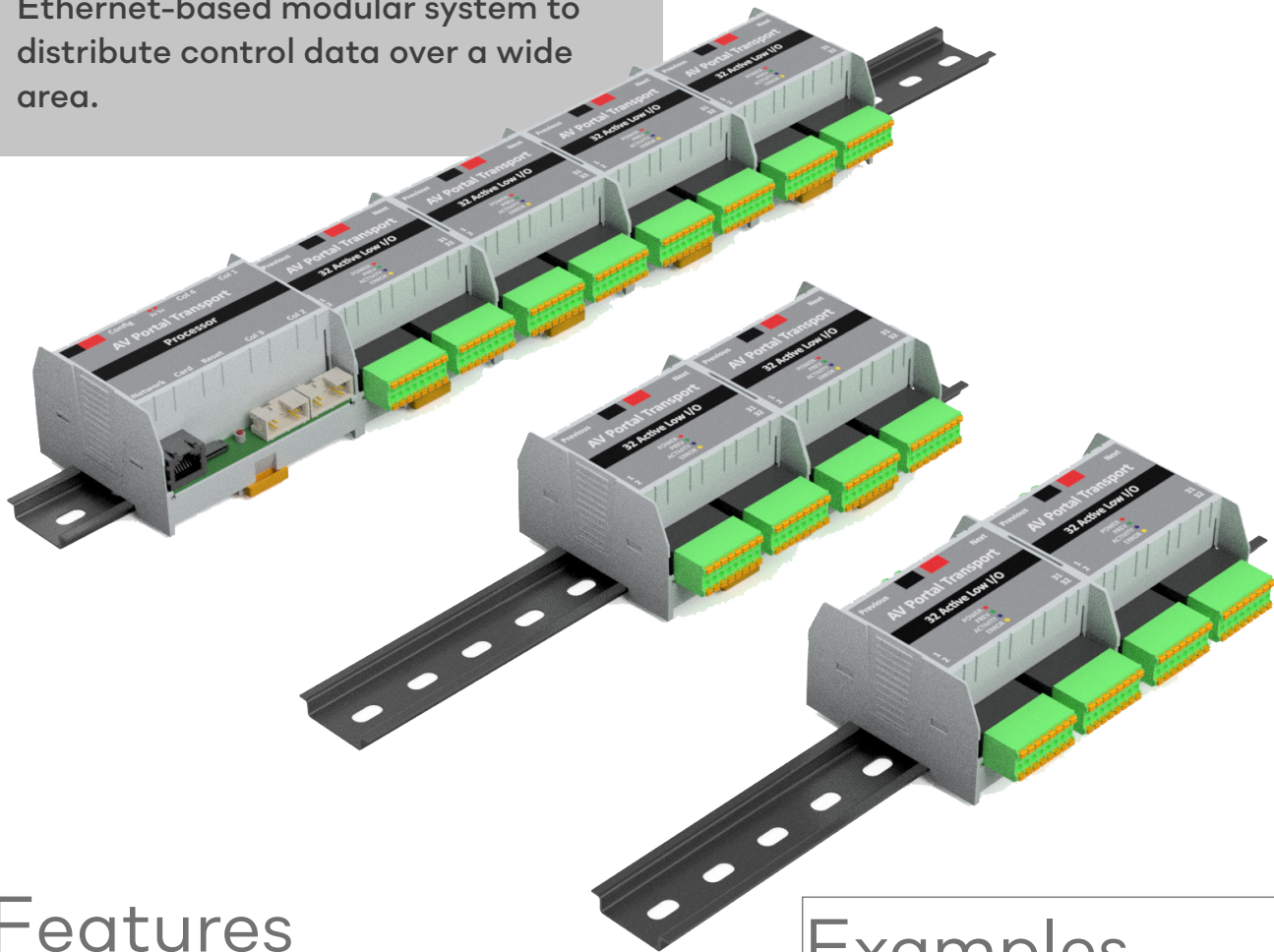# AV-PORTAL IO Modular

Industrial controller for the AV industry.
Ethernet-based modular system to distribute control data over a wide area.

Features

- Almost unlimited channels of Ethernet IO
- 512 IO channels per location
- In or out function programmable per pin
- Choice of polarity on IO modules
- 100M Ethernet
- DIN Rail mounting
- IO physical addin to a software system
- Event record and playback
- IOS and Windows support for touch control
- Preset memory recall and event sequencer

Examples

Distribution of control over a wide area, without compromise.

Animatronic control

Triggered event inputs distributed to other areas and screens

Provides a physical control output for a software device

Record and playback of complex events of any length.

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AV-Portal Family

AV-Portal IO Modular is the building base for a flexible and powerful Ethernet based IO controller. The system is bi-directional and locations can transmit to multiple locations allowing the data to fan out as required with no increase in latency.

The system has a real-time event recorder with physical control buttons or a touchscreen interface. 64 control presets may be added to the Portal which store the status up-to 1,000 inputs. Each control preset can be accessed from any 1,000 memory banks.

Presets and libraries of banks are controlled from an iPad and maybe set into sequences that can be advanced using GPIO.

AV-Portal uses MIDI and timecode but can also translate from Ethernet IP.

Technical

Hardware:	Each node is powered by an embedded processor which controls up-to 16 modules
Max number of nodes:	Only limited by available IP addresses
Network:	RJ45 with Optional Fiber
	One to one or one to many allows data to be pushed out to many locations in real-time
Protocol:	UDP over IP for rapid low latency data transfer. Super efficient propriety data-stream converts to standard protocols at each node.
Latency	3 Milli-Second constant under all conditions
Modules:	32 circuits input or output selectable in software 1.4A DC both polarities available
	32 HD circuits input or output selectable in software 2.5A DC both polarities available
	TS35 DIN rail, Processor 90mm and modules 70mm
Power	External, DC 10 - 36V DC
Distance	100m between nodes CAT5e or long haul by fiber specification

About Us

We have been designing and manufacturing real-time embedded control systems for the entertainment industry since 1968. From the very beginning we have worked hard to be the creative person's source of technological solutions. All of our systems are designed to perform reliably for many years but also be intuitive to use and support creative inspiration.

WWW.1602GROUP.COM