GJD
DETECT & SECURE

WHITE PAPER
IPAnything Module

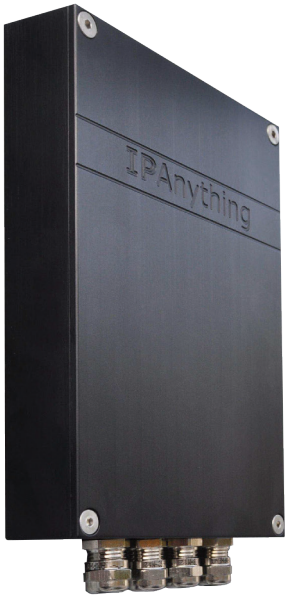
I/O Controller design for IP surveillance systems

SYSTEM CERTIFICATION ISO 9001 SGS
CEDIA MEMBER
bsia british security industry association
2017

CONTENTS

IPAnything

The IPAnything is a simple yet powerful input/output controller, which quickly converts any type of analogue sensor to an IP system, or vice versa.



PRODUCT CODES
GJD516 IPAnything Module (IPA)

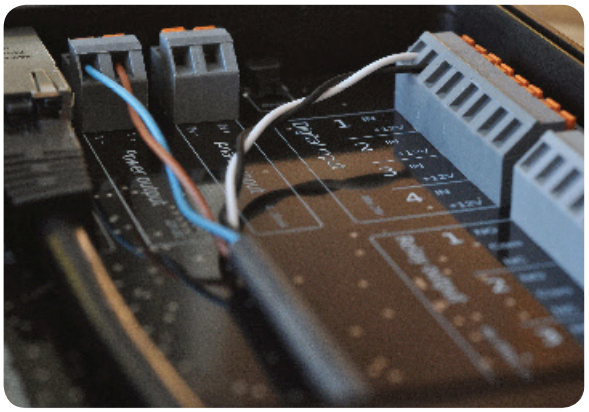
Key Features

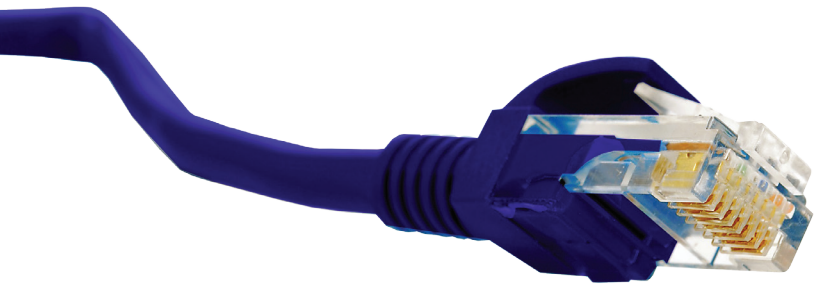
- ✔ IP and analogue signal converter
- ✔ Integrate alarms with VMS or control cameras directly
- ✔ 12V/24V DC output for powering external units
- ✔ Intuitive and powerful web based user interface
- ✔ PoE
- ✔ Network controlled relay outputs
- ✔ Convert 4 relay inputs to IP or IP to 3 relay outputs

ANYTHING CAN BE AN IP DEVICE

Allow your surveillance solution to reach its full potential by integrating equipment directly with the IP system. The IPA has many applications, it can be set to start recording when a door opens, move a PTZ camera to the location of an intrusion or turn on lights and much more.

While network alarms and power over ethernet are standard on IP cameras, most surveillance equipment uses relay outputs and either a 12V or 24V power supply. GJD designed the IPA so that all analogue surveillance equipment will be easy to convert to an IP system and easily integrate with video management systems.





Easy Integration

The IPA enables motion detectors, IR/WL illuminators, microwave barriers, fence alarms or buried sensors be truly integrated with your video surveillance system.

Control equipment

The IPA allows sirens, warning lights and lighting to be controlled over the network, either from your VMS systems or from other devices connected to the IPA. The three relay outputs offer the option of controlling multiple devices. The IP can also control devices with separate on and off signals.

With the 12V/24V DC power options socket, devices with low power consumption, such as sirens and warning lights, can be powered directly by the IPA.

Add measurement devices

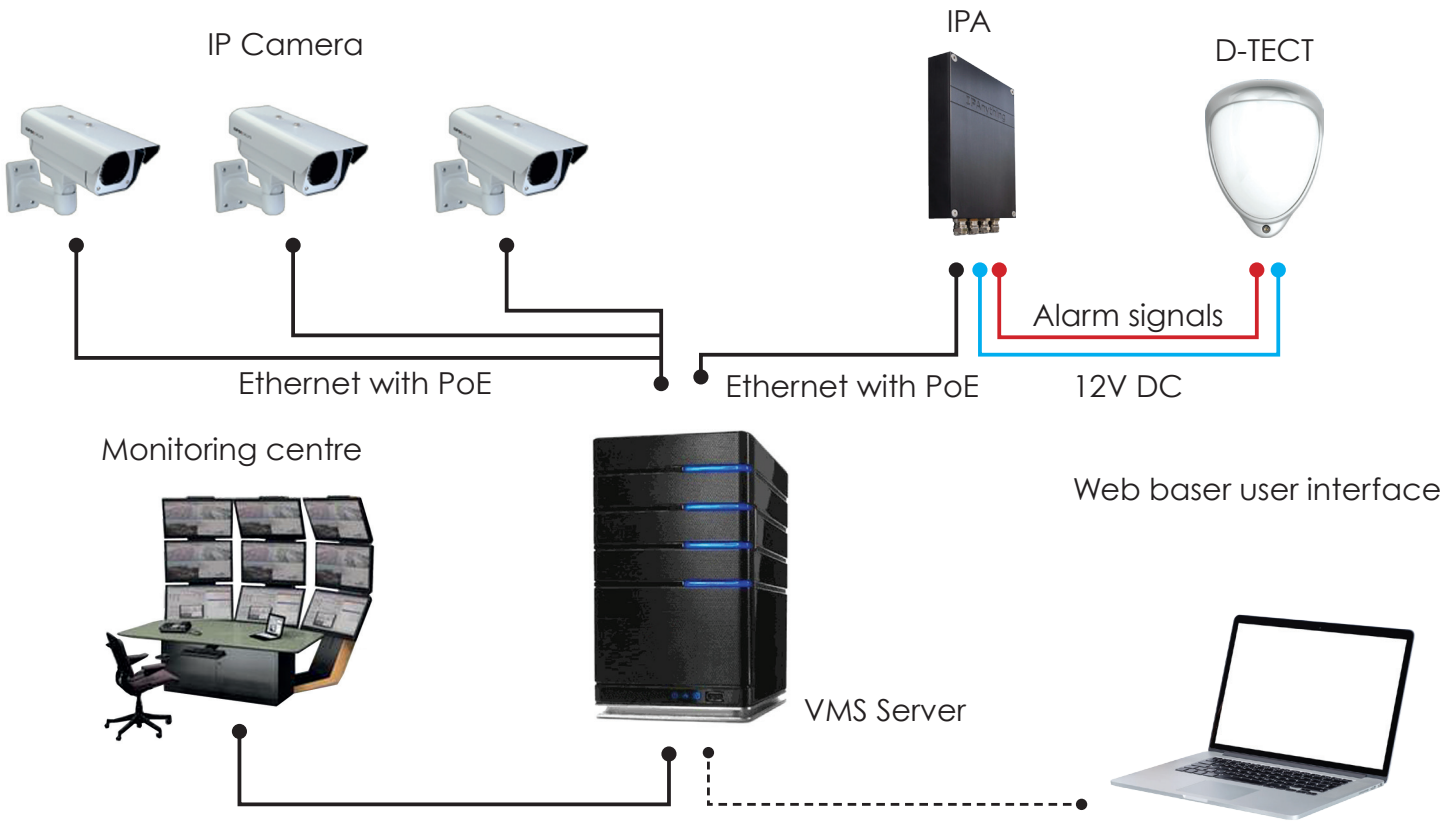
Find new possibilities in the borderland between measurement and surveillance. The analogue inputs let you connect most types of measurement sensors, from which network alarms then are easily created based on thresholds and time parameters. For example a level sensor can activate a camera recording, or present a measurement value as text overlay directly in the camera.

The IPA can be used to create simple IP measurement solutions with only a sensor connected to the IPA and a camera. It can also be used in large-scale industrial applications where critical parts of the system have monitoring cameras connected to a VMS.

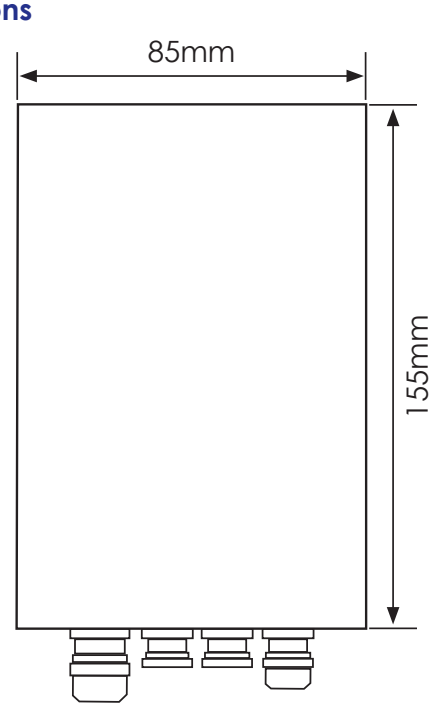
System design

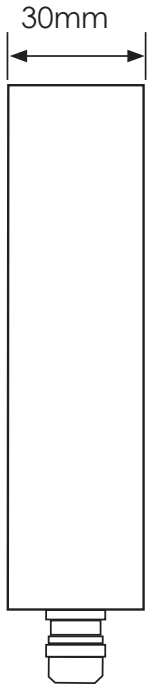
The IPA is used as an I/O converter between the surveillance network, as well as other types of sensors and surveillance devices and all types of sensors or other surveillance devices. The IPA is designed with four alarm inputs, three replay outputs and an analogue input, this ensures that the IPA can handle all types of equipment for a variety of sector applications.

Devices that are connected to the IPA can be powered through the 12V/24V DC output on the IPA. Technologies such as power over ethernet and network alarms enables cost effective installation, requiring only a single ethernet cable. Additionally, its web based user interface is an intuitive way of configuring network alarms for integration with VMS software or direct control of cameras.



Dimensions





Specifications

DIGITAL INPUT	4 x digital inputs, high / low / rising edge / falling edge / frequency counting
ANALOGUE INPUT	1 x 4-20 mA or 0-10V
ALARM OUTPUT	3 x relay. Max 30V, 200mA. N/C and N/O
POWER OUTPUT	1 x 12V DC, max 1A or 24V DC, max 0.5A
NETWORK ALARMS	User configurable HTTP web requests
POWER SUPPLY	Power over Ethernet (48V DC)
POWER CONSUMPTION	Max 12W, PoE class 3
OPERATING TEMPERATURE	- 30°C to + 60°C
INTERFACE	Ethernet IEEE 802.3af, TCP/IP. Web browser user interface
MOUNTING	4 x M6 (80 x 155mm), DIN-rail or mounting screws
ENCLOSURE RATING	IP66
COLOUR	Black
WEIGHT	0.6Kg

Electrical Specifications

DIGITAL INPUT	12VDC, max 1A or 24VDC, max 0.5 A. Short circuit protection.
ANALOGUE INPUT	0-10V: Accuracy: +/- 25 mV, 12-bit resolution. 4-20 mA: Accuracy: +/- 0.05 mA, 12-bit resolution. Choose input type with DIP-switch.
DIGITAL INPUT	Max 24V. Low signal voltage: 0-1V. High signal voltage: 5-24V. Current typ. 4.4 mA @ 24V. Frequency counting: 0.2 Hz-2.5 kHz. Frequency accuracy <1%.
DIGITAL OUTPUT	Relay, max 30V, 200 mA. N/C and N/O.