

# **Network Security Solutions**

AG000-022 10G Network Switch Data sheet V1.0



# Air Gap 10G Network Switch - Data Sheet

The Air Gap 10G Network Switch is a 10GBase T Ethernet layer 1, 1 input 7 output 19 inch rack mounted/desk top mounted air gap isolation unit for the automation of users backup process with the following features

8 Ethernet interfaces, 1 input (common),7 ports (air gap)

1 Ethernet management port

4 USB ports (Mouse, Keyboard)

1 HDMI port

Configuration and operational state displayed on front and rear of unit

Operational temperature range 0 to 40 C

1U 19 inch rack mounted with mounting lugs

Size 444 mm (Width), 44 mm (Height), zzz mm (Depth)

100 V to 230 V AC 50 and 60 Hz

Integrated power supply

Fully CE/UKCA approved

Easily installable, simple to use and secure

Ideal for Enterprise customers

LED indicators for ease of use

Energy efficient technology providing power savings

MDI/MDIX on each port to eliminate crossover cables.

Auto-negotiation to automatically connect at the highest speed.

No blocking switching architecture to allow maximum throughput at wire speed

802.1p QoS for traffic/frame prioritisation

Easily installable, Simple to use and Secure, Plug and Play



Front panel of Air Gap 10G Network Switch



Back panel of Air Gap 10G Network Switch

The Air Gap 10 G Network Switch is designed to fragment and isolate computer devices within a network when not being used rendering them impervious to hacking or other malicious attacks.

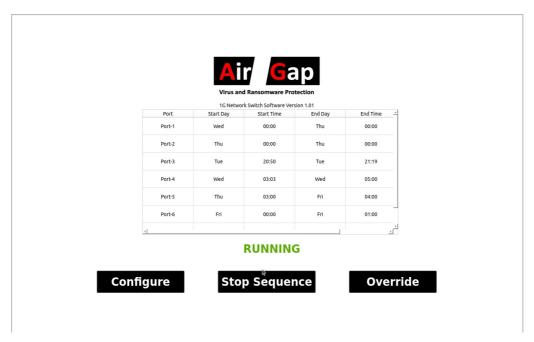
The Network Switch allows computers to be disconnected from a network when the data on it is not being used – allowing the implementation of a clear desk policy for computer networks as recommended by NCSC

The Air Gap 10G Network Switch is connected within a computer network as easily as any other network switch is connected. Once configured the Air Gap Network Switch disconnects computer devices such as network drives or other hardware which has significant data on it when it is not required. The Air Gap Network Switch can provide network protection for up to 7 computer devices.

The USB and HDMI connections allow connection to a monitor, mouse and keyboard.

The front panel and rear panel LEDs allow easy understanding of the state of the Air Gap Network Switch.

The Air Gap Network Switch sequence is configured via a simple graphical user interface (GUI). For further details see 10G Air Gap Network Switch User Guide.



Air Gap 10G Network Switch GUI Main Screen

For further details of air gap switches and how they provide the ultimate in network security please see Air gaps – what are they and why they are used.

## **Specifications**

Front Panel	Front Pane	l
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**Indicators** 

Power 1 off Green
Running/Stopped 1 off Green/Red
Port Status 7 off Yellow/Green

#### Rear Panel

HDMI 1 off HDMI Full Size Female

Video Format 1080 \*1920 Output

USB 2 off USB 2.0 Socket Type A

2 off USB 3.0 Socket TypeA

Management Port 1 off 1G BaseT Ethernet 10/100/1000 Mbits/sec

Common Port 1 off 1G BaseT Ethernet 100Mbps/1/2.5/5/10 Gbits/sec Air gapped Ports 7 off 1G Base T Ethernet 100Mbps/1/2.5/5/10 Gbits/sec

#### **Data Ports**

**IEEE Network protocols** 

IEEE 802.3 CSMA/CD IEEE 802.3an 10GBase-T

IEEE 802.3bz 2.5GBase-T and 5GBase-T IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3u 100Base-TX Fast Ethernet

IEEE 802.3x Flow Control

IEEE 802.1p Priority QoS and DSCP

#### Features

Auto MDI/MDI-X Cable Detection

Auto-Sensing Half Duplex Switched Ports

## **Performance Specifications**

Bandwidth non blocking
Packet Forwarding Rate
Packet Buffer Memory
Jumbo Frame support

160 Gbps
119 Mpps
16 MBytes
10K Bytes

Transfer Method Store and Forward

MAC Address Table 32K

# Power

1 off IEC type		
Min	Max	
85	264	
47	63	
	0.75	(115 V)
	0.4	(230 V)
	0.75	(230 V, 50 Hz)
40		(115 V at 25 C)
65		(230 V at 25 C)
	Min 85 47 40	85 264 47 63 0.75 0.4 0.75

Fuses 2 off 2A T2A

Environmental Storage Temperature Operating Temperat	` '	Max 70 40			
Regulatory					
EMC Emissions					
Type	Standard	Test Level			
Conducted	EN55032	Class B			
Radiated	EN55032	Class B			
Harmonic Current	EN61000-3-2	Class A			
EMC Immunity					
Type	Standard	Test Level	Criteria		
ESD Immunity	EN61000-4-2	3	A		
Rated Immunity	EN61000-4-3	3	A		
EFT	EN61000-4-4	3	A		
Surge	EN61000-4-5	Installation Class 4	A		
Conducted	EN61000-4-6	3	A		
Dips	EN61000-4-11	Dip 100% (0VAC), 10 ms	A		
	EN61000-4-11	Dip 100% (0VAC), 20 ms	A		
	EN61000-4-11	Dip 60% (88VAC), 200 ms	A		
	EN61000-4-11	Dip 30% (154VAC), 500 ms	A		
	EN61000-4-11	Dip 20% (176VAC), 5 s	A		
Interrupt	EN61000-4-11	Int 100% (0VAC), 5 s	В		
UL	UL62368-1				
TUV	EN62368-1, EN60335, EN61558				
CE	All applicable directives				
UKCA	All applicable directives				