

Network Security Solutions

AG000-012 1G Network Switch Data sheet V1.0



Air Gap 1G Network Switch - Data Sheet

The Air Gap 1G Network Switch is a 1GBase 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

Fanless operation

Operational temperature range 0 to 40 C

1U 19 inch rack mounted with mounting lugs

Size 444 mm (Width), 44 mm (Height), 221 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 Small Offices/ Home Office (SOHO)

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

Plug and Play



Front panel of Air Gap 1G Network Switch



Back panel of Air Gap 1G Network Switch

The Air Gap 1G 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.

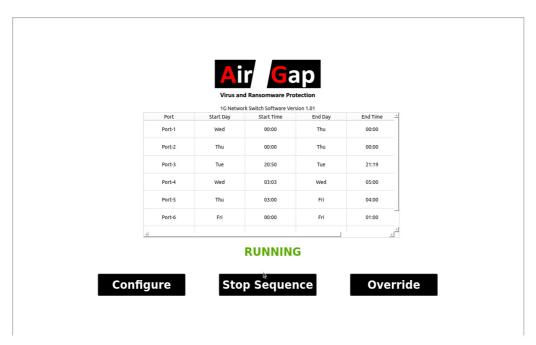
The Network Switch allows computers to be disconnected from a network when the data on it is not being used – allowing the implementation of a clear desk policy for computer networks as recommended by NCSC

The Air Gap 1G 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 1G Network Switch.

The Air Gap Network Switch sequence is configured via a simple graphical user interface (GUI). For further details see 1G Air Gap Network Switch User Guide.



Air Gap 1G 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
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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 10/100/1000 Mbits/sec Air gapped Ports 7 off 1G Base T Ethernet 10/100/1000 Mbits/sec

Data Ports

IEEE Network protocols

IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 803.3i 10Base-T Ethernet

IEEE 803.31 TOBASE-1 EUR
IEEE 802.3x Flow Control

IEEE 802.1p Priority QoS and DSCP

IEEE 802.3 CSMA/CD

IEEE 802.3az Energy Efficient Ethernet

Features

Auto MDI/MDI-X Cable Detection

Auto-Sensing Half Duplex Switched Ports

Auto Power Saving

Energy Efficient Ethernet

Short Cable Detection

Performance Specifications

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

2 Gbps
192KBytes
9216 Bytes
1,448,000pps
<2.6 us

Power

Connector Type	1 off IEC type 3			
Parameter	Min		Max	
Voltage (V)	85		264	
Frequency (Hz)	47		63	
Input Current (A)			0.25	(115 V)
Input Current (A)			0.125	(230 V)
Earth Leakage current (mA)			0.75	(230 V, 50 Hz)
Inrush current (A)		30		(115 V at 25 C)

Fuses		50 2 off 1A T1A	(230 V at 25 C	C)
Environmental Storage Temperature (C) Operating Temperature (C)		Min -10 0	Max 70 40	
Regulatory EMC Emissions Type Conducted Radiated Harmonic Current	Standa EN550 EN510	032	Test Level Class B Class B Class A	
EMC Immunity Type ESD Immunity Rated Immunity EFT Surge Conducted Dips	EN610 EN610 EN610 EN610 EN610 EN610	ord 000-4-2 000-4-3 000-4-4 000-4-5 000-4-6 000-4-11 000-4-11 000-4-11	Test Level 3 3 3 Installation Class 4 3 Dip 100% (0VAC), 10 ms Dip 100% (0VAC), 20 ms Dip 60% (88VAC), 200 ms Dip 30% (154VAC), 500 ms Dip 20% (176VAC), 5 s	Criteria A A A A A A A A A
Interrupt UL TUV CE UKCA	UL623 EN623 All ap	000-4-11	Int 100% (0VAC), 5 s 5, EN61558 ves	В