



# Network Security Solutions

AG000-021 10G Backup Data sheet  
V1.0

## Air Gap 10G Backup - Data Sheet

The Air Gap 10G Backup 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 Backup



Back panel of Air Gap 10G Backup

The Air Gap 10G Backup is designed to automate the disconnecting of backup devices thus rendering them unable to be attacked as recommended by NCSC\*

The Air Gap 10G Backup has a common Ethernet port which is connected to the computer network in which data is being backed up. The 7 air gapped Ethernet ports are connected to the backup devices. The USB and HDMI connections allow connection to a monitor, mouse and keyboard. The backup sequence is configured via a simple graphical user interface (GUI). For further details see “10G Backup User Guide”.

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Air Gap 10G Backup 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”.

\*NCSC advice “When the removable media isn't in use, it's important that you disconnect it. Viruses (and other types of malware, such as ransomware) can move to attached media automatically, which means any such backup could also be infected, leaving you with no backup to recover from.”

## Specifications

### Front Panel

#### 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 Mbts/sec
Common Port	1 off	1G BaseT Ethernet	100Mbps/1/2.5/5/10 Gbts/sec
Air gapped Ports	7 off	1G Base T Ethernet	100Mbps/1/2.5/5/10 Gbts/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	20 Gbps
Packet Forwarding Rate	119 Mpps
Packet Buffer Memory	16 MBytes
Jumbo Frame support	10K Bytes
Transfer Method	Store and Forward
MAC Address Table	32K

### Power

Connector Type	1 off IEC type 3		
Parameter	Min	Max	
Voltage (V)	85	264	
Frequency (Hz)	47	63	
Input Current (A)		0.75	(115 V)
Input Current (A)		0.4	(230 V)
Earth Leakage current (mA)		0.75	(230 V, 50 Hz)
Inrush current (A)	40		(115 V at 25 C)
	65		(230 V at 25 C)
Fuses	2 off 2A T2A		

Environmental	Min	Max
Storage Temperature (C)	-10	70
Operating Temperature (C)	0	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	B

UL	UL62368-1
TUV	EN62368-1, EN60335, EN61558
CE	All applicable directives
UKCA	All applicable directives