

NETLink Storm

Robust Store and Forward Solution

COFDM – Video, Audio Telemetry and IP Products

COBHAM

June 2011 Data Sheet

The most important thing we build is trust



The NETLink Storm is the next generation robust solution for transmitting video and audio across both private and public networks, based on the successful NETLink. In addition, it provides an all-in-one solution allowing for quick indoor as well as outdoor deployment, with integral support for ADSL, dual 3G networks, WiFi and COFDM communication.

The NETLink Storm, which features Cobham technology at its core, allows Cobham Tactical Communications and Surveillance equipment and analogue cameras to be connected to IP networks via live streaming and providing 24/7 store and forward.

An all-in-one case solution, NETLink Storm is a tailored product for remote surveillance, aimed specifically at the covert intelligence gathering market. Its compact, sealed, robust Pelican case design enables secure, rapid-drop deployment, and features an internal screen for camera positioning. Power up and down can be controlled locally or via remote control and, if the case is tampered with or a hard wired trigger occurs, alerts can be sent by SMS or email.

NETLink Storm can be set to stream at rates suitable for either private or public networks. In private network mode it will stream full frame rate, full resolution video for maximum quality. When connected to public networks where the data rates are limited, it will produce a reduced frame rate and resolution stream at a data rate appropriate for the network.

NETLink Storm uses AES128 or AES256 encryption to ensure the security of the video data. These transmissions can then be decoded in software using the NETEPLAY-S application, or in hardware using the NETIPHW IP Hardware decoder¹. The NETLink Storm also has an RS232 output suitable for control of any PTZ

camera that might be connected to it.

The NETLink Storm provides a number of very powerful features:

- All-in-one robust case solution. The NETLink Storm is constructed for outdoor deployment, being completely waterproof and sealed when the lid is closed. The external Amphenol connectors allow robust connections to cameras, triggers, antennas and power. The large heat sinks allow for heat dissipation and the case contains everything needed for both short- and long-term deployment.
- Built-in auto switch ADSL/dual-3G/WiFi. The NETLink Storm includes integral support for ADSL, WiFi and dual network 3G communication with fast automatic switch between them to ensure maximum failover connectivity. Any of the communication methods can be switched on and off as required.
- Dual hotswap hard drives. Two built-in hard drives allow the NETLink Storm to act as an advanced store and forward solution, recording full evidence quality audio and video locally, while streaming live across any network.
- High speed local download via WiFi link. If the NETLink Storm is deployed without physical access, the built-in WiFi connection can be activated temporarily and the full quality audio and video can be downloaded covertly from a distance.
- Remote control for local power down/up. The remote control can be used to power down the NETLink Storm completely to conserve power, and power up only when needed.
- Built-in battery pack. The integral battery will allow the NETLink Storm to run for a few hours without external power for either short-term deployments or to guard against interruptions due to power failures.

¹ Private LAN only.

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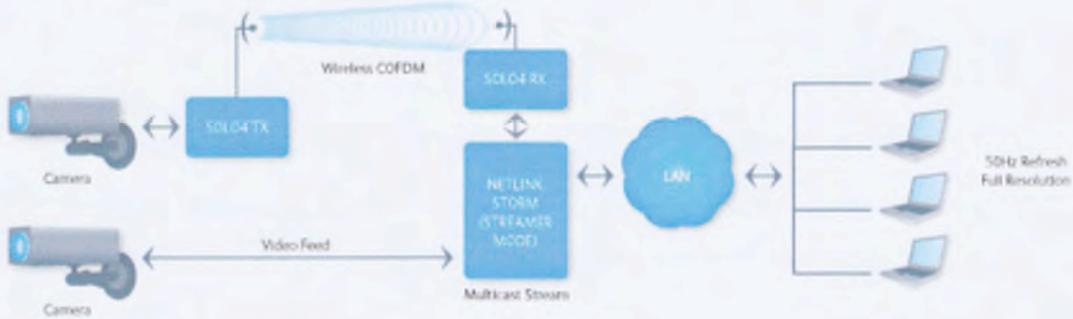
- Triggers and tamper alerts via SMS and email. The NETLink Storm comes with a built-in tamper alert sensor, as well as support for external triggers. If the box is disturbed or moved at any point, an alert trigger is generated, which can be sent to the right person via SMS and email, as well as being logged as part of the recording.
 - Screen for camera positioning. The internal screen can be used for camera positioning and can be switched off completely to conserve power.
 - Local video link via COFDM transmitter. The NETLink Storm includes a COFDM transmitter for wireless high quality video links to other Cobham Surveillance equipment.
- NETLink Storm is a multi-cast product when used on a private LAN or a uni-cast product when used over the internet.

Standard NETLink features

- Input from analogue camera or Cobham COFDM Receiver
- Full quality streaming onto private networks
- Adaptive streaming across contended public networks
- Supports transmission over 3G/2G wireless networks
- Better image quality with additional user configuration
- Different access levels for supervisor, gold and silver users
- PTZ ports to support local camera
- PTZ control for cameras supporting Forward vision, Sony Visca, Pelco B and Pelco P.
- Support for up to 16 cameras via Kramer video switch
- AES128/AES256 encryption for security

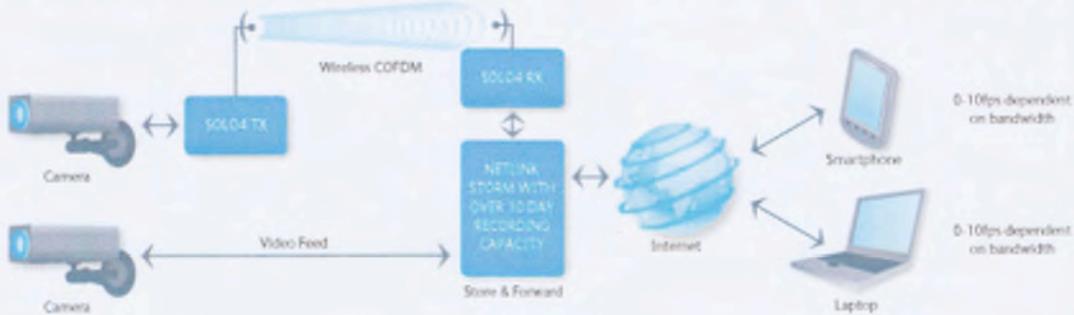
Option A – NETLink Storm receives direct video input for multicasting over Private Networks

- NETLink can be upgraded to receive direct AV feed.



Option B - NETLink Storm receives direct video input for 'store and forward' and uni-casts over the internet

- NETLink Storm offers a variety of 'Store and Forward' options enabling the capture of evidential quality video from remote locations.



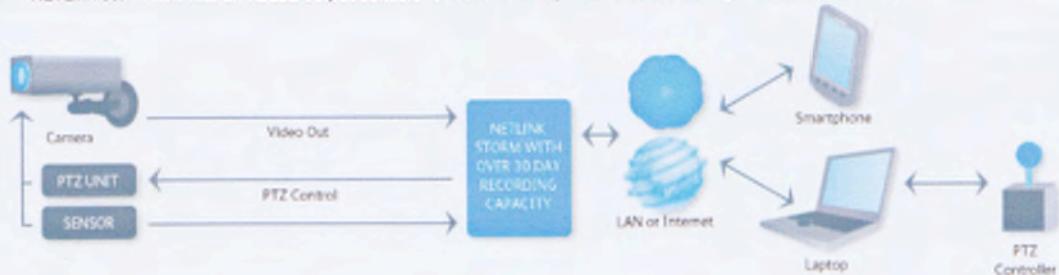
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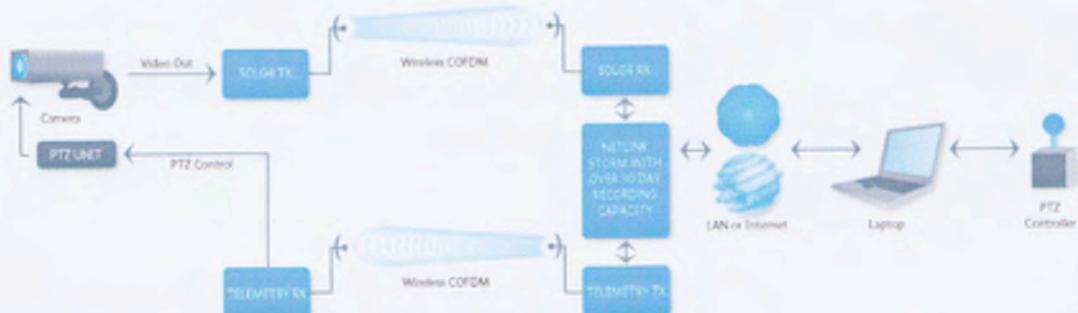
Option C - NETLink Storm can be used to view and control PTZ camera over IP Networks

- NETLink Storm also has an RS232 output suitable for control of any PTZ camera that might be connected to it.



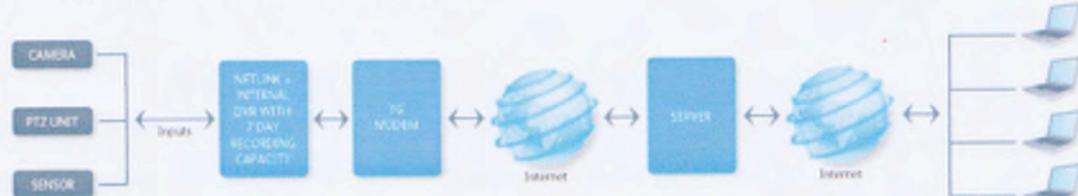
Option D - NETLink offers a sophisticated range of time logging and trigger functions, and also fast forward and rewind viewing options

- NETLink Storm is a high capacity remote DVR system
- The NETLink Storm supports a variety of IP Solutions for integration into numerous wireless surveillance applications.



Option E – Server Based Scenarios

- The NETLink Server enables multiple simultaneous users



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Specification:

Interfaces		Thumbnails	
Power/Ethernet	6-way Amphenol	Image Standard	Encrypted JPEG
Breakout cable		Resolution	User Controllable
Power Input	4 pin QB Lemo socket	Frame Rate	0-10fps depending on network bandwidth
Secondary Ethernet	RJ45		
Source 1		Audio	
Breakout cable	19-way Amphenol	Input	Line Level
Camera Power (12V)	Female bullet	Sample Rate	32KHz, 16KHz, 8KHz
Composite video input	BNC	Bits per Sample	12 or 8 bit
Audio input 1, 2	5 pin QB Lemo socket	Encryption	AES 32 bit as standard
PTZ Interface 1	9-way D-Type	Format	AES 128/256 (optional)
Trigger input 1	Female bullet		
Source 2/Misc		Control	
Breakout cable	22-way Amphenol	Unit Set-up configuration	PC Application via Ethernet and USB Key
Chaining input + control			
PTZ Interface 2	6 pin Lemo socket	Physical	
Trigger input 2	9-way D-Type	Robust Storm Case	L 439mm, W 321mm, H 166mm
Internal modem port	Female bullet		
	RJ45	Power	
		DC Input	9 to 16V Reverse Polarity Protected
		Power Consumption	From 10W depending on configuration
Audio Monitoring		Environment	
Amplified Stereo output	3.5mm Stereo Jack socket	Temperature range	-10 to +50 deg C
Storage		Product Codes:	
USB Hard disk port 1	USB Mini-B	NETLinkS-109150	NETLink Storm 1.00-1.50MHz COFDM
USB Hard disk port 2	USB Mini-B	NETLinkS-165250	NETLink Storm 1.65-2.50MHz COFDM
Configuration		Product Code Includes:	
USB configuration port	USB-A	AP001694	1Gb Cobham brand USB stick - blank
RS232 configuration port	3 pin Lemo socket	AP001996	433MHz Whip Antenna N-type adaptor
RF		AP002065	3G Antenna N-type adaptor
3G	N-Type	AP002066	WiFi Antennas N-type x 2
WiFi	2 x N-Type	CA0628	External PSU Cable Assembly 1.2H
COFDM out	N-Type	CA0629	External Breakout Cable Assembly 2M
FM power switch	N-Type		
Antenna's supplied as part of the kit.			
WAN		Accessory Options:	
ADSL	Robust RJ11	NETEPLAY-S	Software player for streaming only (MPEG2 only)
Network Interfacing		NETEPLAY-SSF	Software player to fully access store and forward functions
Mobile data networks	2G, 3G, HSDPA		
Ethernet	10/100Mb/s	Licensing Options:	
WiFi	802.11a/b/g	AES128NLSMTX	AES NETLink Storm 128 Bit Encryption
ADSL	ADSL1, ADSL2+	AES256NLSMTX	AES NETLink Storm 256 Bit Encryption
Storage			
Supplied Hard Disk Capacity	1 TB (2 x 500 GB)		
Optional solid state storage available			
Video			
Line Standard	PAL/NTSC		
Resolution	704, 528, 480, 352		
Coding Mode	MPEG2		

Products are available to security users only, in licensed frequency bands. These products are not approved for use by unlicensed users.

Commercial products are available to unlicensed users - contact Cobham Tactical Communications and Surveillance direct for details.

All product specifications are subject to change without notice. Cobham Tactical Communications and Surveillance will not be liable for technical or editorial errors or omissions.

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