

Samix Ethernet Extender

The 802 Global Samix System uses a range of technologies to provide a robust and reliable communications solution that can be rapidly deployed at the scene of a major incident.

Using advanced, yet proven, wireless mesh, COFDM and satellite technologies, the Samix System ensures that video images can be transferred from the front line to wherever they are needed, whether that is to local or regional command, or even to HQ or Gold Command. Similarly vital data can be sent from those locations direct to the incident ground.

In certain circumstances, despite the robust and tested penetration of the mesh and COFDM technologies, the Samix Ethernet Extender capability can be used to ensure that the reach of the communications network can be established in even the most radio hostile circumstances. Environments such as those encountered in confined space rescue or mines, can absorb or reduce the range of radio frequency transmissions and in these situations Samix Ethernet Extenders are used to link directly to a command post or to provide a link between wireless nodes at either end of the restricted wireless transmission area.

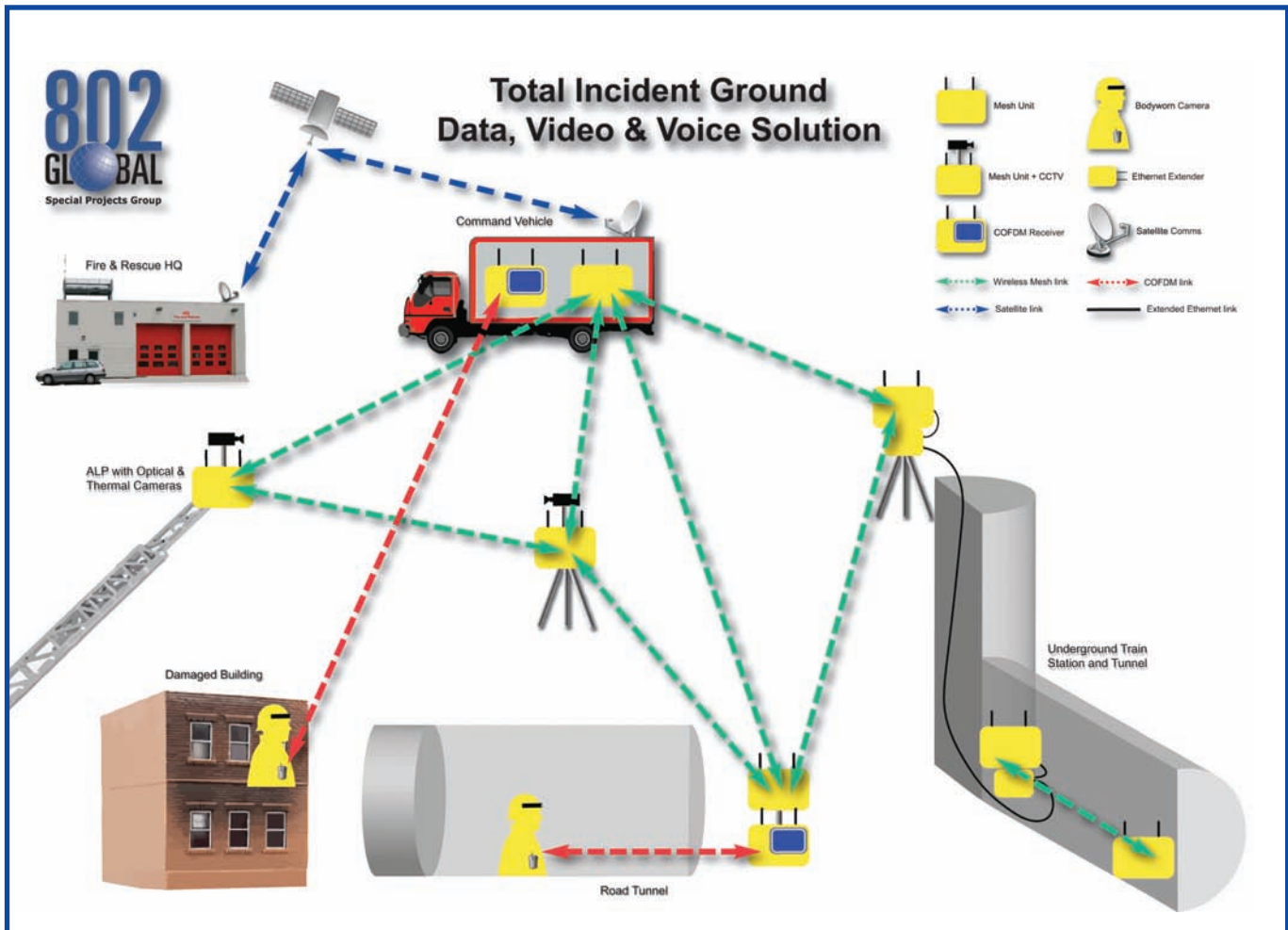
Samix Ethernet Extenders are simple to operate and can easily interconnect with any of the products in the 802 Global Samix System. Low cost standard ethernet cable can be used for environments where the cable may become contaminated so that it can be removed and disposed of after an incident.

A single Samix Ethernet Extender link can facilitate a connection up to 1.8km long and support symmetrical transmission rates at up to 50 Mbps. For long tunnels or deep mine rescue, Ethernet Extender links can be interconnected to give a total range up to 7km.



Key features of the Samix System:

- Rapid deploy video imaging across incident enables command to see exactly how an incident is progressing
- Bodyworn wireless cameras using COFDM technology allow monitoring of front line personnel, ensuring safety
- ALP mount solutions for delivering aerial images from thermal and optical cameras to deliver commanders an optimum view of the incident
- Satellite communications to ensure links with the rest of world can be maintained
- Voice and data communications available across the incident regardless of local communications infrastructure
- Ethernet extensions to enable video and voice to be maintained in even the most challenging environments



Samix Ethernet Extender Specifications

LAN connection

Shielded RJ-45, 10/100Base-T, IEEE 802.3 Ethernet
CopperLINK Connection: RJ-45

Transmission Line

Two-wire unconditioned twisted pair, typically 24 AWG (0.5mm)
Supported twisted pair range from 19 (0.9mm) to 26 AWG (0.4mm).

Copperlink line rate and distance

SIDACTOR with maximum current surge: 20kA (8/20us)

Power Supply

18Ah 12Vdc Lilon rechargeable battery

Operational time

Approximately 62 hours continuous operation.

Temperature Range

0-50C

Humidity

Up to 90% non-condensing

Dimensions

270 x 246 x 123mm

Weight

3Kg

For more information on the 802 Global total incident ground solution please see the individual product datasheets:

Samix System, Samix RDMN-3 Rapid Deploy Mesh Network Nodes, Samix Camera System, Samix Ethernet Extender, Satellite Communications, Command Vehicle Solutions

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