

Wood & Douglas PA Lineariser counters operational threats from in-theatre communications interference

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- 36% improvement in signal quality despite congested bandwidths and heavy interference
- 50% lower power demands enable development of smaller, flexible comms devices
- Cost effective with reduced maintenance
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Poor quality voice and data communications are a life threatening issue for military personnel operating in-theatre. The Power Amplification (PA) Lineariser from specialist wireless communications company, Wood & Douglas (<http://www.woodanddouglas.com/>), counters congested radio frequencies and high levels of interference, and enables the creation of easier to deploy radio applications on land, sea and in the air.

With in-theatre communications often crowded onto an outpost's single pole, frequency congestion and interference from poor linearity can become a critical operational weakness. Time amplitude variant RF signals, such as COFDM HD video transmission, need good linearity to achieve the best performance, but this can also result in extreme heat dissipation and poor efficiency.

The Wood & Douglas manufactured PA Lineariser provides clean signals in congested bandwidths. This is achieved by lowering the 'shoulder height' of signals using power ratios of more than a watt. It delivers a 36% improvement in signal quality, improving performance by reducing interference levels and increasing reception, especially when airwaves are congested. With PA Lineariser, co-located radios in the same spectrum will all perform better.

By drawing 50% less power, Wood & Douglas' PA Lineariser also dramatically reduces efficiency issues caused by heat dissipation. This enables military field communications to be designed with a smaller, lighter form factor, without loss of quality or transmission range, which delivers greater options for rapid deployment. The significant improvements to power demand also helps reduce maintenance costs and the risks associated with maintaining sites.

Alan Wood, Managing Director, Wood & Douglas, says, "Radio frequency congestion and interference is a common issue for forward communications in operational theatres, especially with the growing demand for high definition video surveillance feeds. Mission critical communications demand clean, clear transmission and the PA Lineariser provides personnel with optimal transmission and reception in the most challenging signalling environments."

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About Wood & Douglas

Wood & Douglas is widely regarded as the leading UK designer and manufacturer of high quality customised wireless products and services. The company was founded in 1977 and rapidly expanded to create wireless based solutions for voice, data and video applications that deliver a high level of quality and

reliability to industrial, commercial, municipal, national and global organisations.
For further information visit: www.woodanddouglas.co.uk

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