


Polar multi-symbol delay detection carrier recovery (Technion)

code: COM-1480

Carrier recovery (CR) in electrical and optical communication is typically a hardware intensive operation, especially when requiring high precision. The presented technology provides a particularly effective hardware realization while also providing carrier frequency and phase recovery as well as providing non-linear cross-phase modulation correction. The polar-domain operation allows multiplier-free implementation, significantly reducing hardware realization complexity.

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