What are the Synchronization Requirements for Different Types of LTE?



The following table summarizes the requirements:

Application	Frequency Error	True Time Error
LTE (FDD)	16/50 ppb	NA
LTE (TDD)	16/50 ppb	± 1.5 μs
LTE MBSFN*	16/50 ppb	-1 to 32 μs
LTE-A CoMP (network MIMO)**	16/50 ppb	± 500 ns
LTE 5G	15/50 ppb	± 400 ns
LTE (residential)	100/250 ppb	None

^{*}MBSFN == Multimedia Broadcast Multicast Service (MBMS) over a single frequency network

For any other technical information inquiries, please contact us at qg2_support@viavisolutions.com

^{**} CoMP = Coordinated Multi-port Transmission/Reception