Symbol	Definition
$x_{IN}[k]$	complex vector I, Q samples of received signal
A(t)	Signal Amplitude
$\hat{S}_T(t)$	filtered version of $S_T(t)$
$f_D(t)$	Time - varing doppler shift
$\Phi(t)$	Time - varing carrier phase shift
n(t)	Term modelling random noise
T_s	sampling period