

MODULATING SIGNAL DESCRIPTION

Applicant STC Investment Fund I, Inc. dba Spectrum Telecom (“Spectrum Telecom”) proposes to the following parameters for its modulation.

Multi-carrier Synchronous CDMA
5MHz channels
10 - 500kHz sub-carriers
10ms TDD Timing
400kHz Carrier Chip Rate
32 chips TCC, 64 chips Sync
QPSK, 8PSK, 16QAM Uplink, QPSK Downlink
Dynamic based on SNR evaluated every 10ms.
Transmission efficiency is 66.5% (includes LLC)
BER: 10 to the minus 3, before FEC
Forward Link: Beam Forming
Reverse Link: Spatial Filtering: Enhanced Nulling