# Close-Haul GAPFiller GSM 900
# USRP-compatible RF daughtercard



Tx Mezzanine Connector

5th order LPF
f(3dB)=400 kHz

AD5375 Quad
Modulator

MAX2058 VGA
G=~10dB
A=0-62 db

SAW filter
fc=942.5 MHz
BW=35 MHz

G-18dB

PHA-1+ Amp

ADF4350
Synthesizer/VCO

RX f(IF)=170.6 MHz

MGA-633P8
LNA
G=18 dB

SAW filter
fc=897.5 MHz
BW=35 MHz

MGA-633P8
LNA
G=18 dB

HMC542ALPE
Digital
Attenuator
A=0-31.5 dB

MGA-633P8
LNA
G=18 dB

HMC483MS86E
Mixer

ADF4350
Synthesizer/VCO

SAW filter
fc=170.6 MHz
BW=180 kHz

AD8348 Quad
Demodulator

ADF4360-8
Synthesizer/VCO

Rx Mezzanine Connector

52 MHz clock
(to USRP)

AD5320
DAC

NB3N3020DTG
Clock Doubler

LPF
f(3dB)=57 MHz

SMA-F

TCD4029-26.0M
VCTCXO

SN74LVC1GU04
Inverter