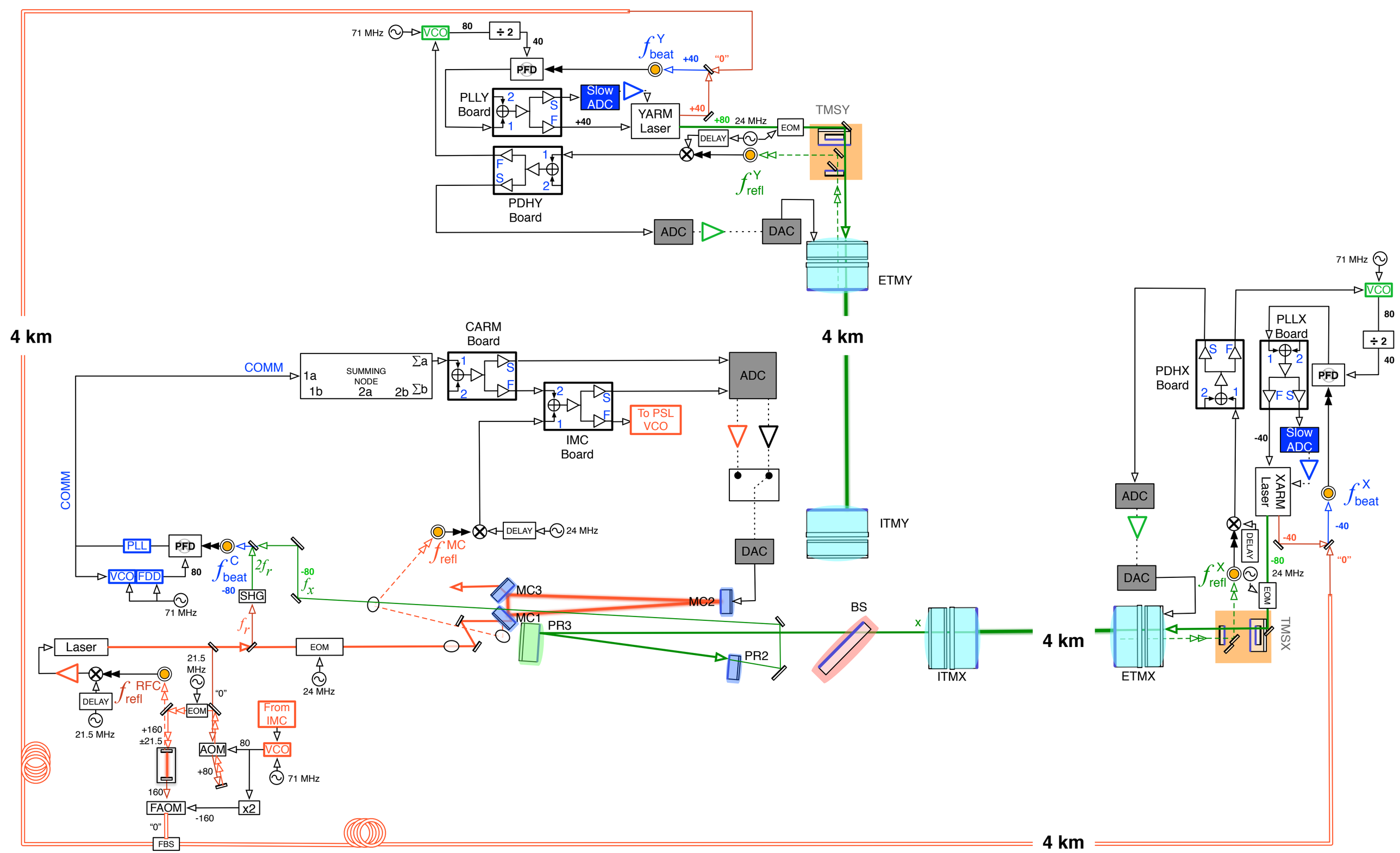
71 MHz
VCO
80
÷ 2
40
PFD
f^{Y}_{beat}
+40
"0"
PLLY Board
Slow ADC
YARM Laser
+40
+80
24 MHz
EOM
TMSY
DELAY
f^{Y}_{refl}
PDHY Board
ADC
DAC
ETMY
4 km
CARM Board
COMM
SUMMING NODE
1a
1b
2a
2b
Σa
Σb
ADC
IMC Board
To PSL VCO
DELAY
24 MHz
f^{MC}_{refl}
DAC
ITMY
4 km
PLL
PFD
VCO
FDD
80
71 MHz
f^{C}_{beat}
-80
SHG
$2f_r$
f_r
-80
f_x
MC3
MC2
MC1
PR3
PR2
BS
x
ITMX
Laser
EOM
24 MHz
21.5 MHz
"0"
DELAY
21.5 MHz
f^{RFC}_{refl}
+160
±21.5
160
AOM
80
+80
From IMC
VCO
71 MHz
FAOM
-160
x2
"0"
FBS
4 km
71 MHz
VCO
80
÷ 2
40
PDHX Board
PLLX Board
PFD
-40
Slow ADC
XARM Laser
f^{X}_{beat}
-40
"0"
ADC
DAC
ETMX
f^{X}_{refl}
DELAY
-80
24 MHz
EOM
TMSX