

Output Signals: States Bus
V_e [m/s].Xdot [m/s]
V_e [m/s].Ydot [m/s]
V_e [m/s].Zdot [m/s]
X_e [m].X [m]
X_e [m].Y [m]
X_e [m].Z [m]
Nav.Geodetic Latitude [deg]
Nav.Geodetic Longitude [deg]
Nav.Altitude [m]
Nav.Alt (Above Mean Sea Level) [m]
Nav.AC on Ground
Nav.Alt (Above Ground Level) [m]
Nav.gndtrack [rad]
Nav.gamma [rad]
Euler [rad].phi [rad]
Euler [rad].theta [rad]
Euler [rad].psi [rad]
EulerDot [rad/s].phidot [rad/s]
EulerDot [rad/s].thetadot [rad/s]
EulerDot [rad/s].psidot [rad/s]
R_be [3x3]
V_b [m/s].u [m/s]
V_b [m/s].v [m/s]
V_b [m/s].w [m/s]
AngVel [rad/s].p [rad/s]
AngVel [rad/s].q [rad/s]
AngVel [rad/s].r [rad/s]
AngAccel [rad/s^2].pdot [rad/s^2]
AngAccel [rad/s^2].qdot [rad/s^2]
AngAccel [rad/s^2].rdot [rad/s^2]
A_b [m/s^2].udot [m/s^2]
A_b [m/s^2].vdot [m/s^2]
A_b [m/s^2].wdot [m/s^2]
InertialAccel [m/s^2].a_Xe [m/s^2]
InertialAccel [m/s^2].a_Ye [m/s^2]
InertialAccel [m/s^2].a_Ze [m/s^2]
WindAxesParam.V_s [m/s]
WindAxesParam.alpha [rad]
WindAxesParam.beta [rad]
AlphaBetaDot [rad/s].alphadot [rad/s]
AlphaBetaDot [rad/s].betadot [rad/s]
Mach Number.Mach Number
Accels [m/s^2].Ax [m/s^2]
Accels [m/s^2].Ay [m/s^2]
Accels [m/s^2].Az [m/s^2]

**Output Signals: EnvData Bus**

Temperature [K]
Speed of Sound [m/s]
Pressure [Pa]
Density [kg/m <sup>3</sup> ]
SteadyWind [m/s].Vx_w [m/s]
SteadyWind [m/s].Vy_w [m/s]
SteadyWind [m/s].V_z [m/s]
WindGust [m/s].ug [m/s]
WindGust [m/s].vg [m/s]
WindGust [m/s].wg [m/s]
WindAngVel [rad/s].pg [rad/s]
WindAngVel [rad/s].qg [rad/s]
WindAngVel [rad/s].rg [rad/s]
Gravity [m/s <sup>2</sup> ]
Magnetic Field [nT]

**Input Signals: Control Inputs Bus**

flap [rad]
elevator [rad]
aileron [rad]
rudder [rad]
throttle [nd]