"Misc" Channel Name	Description	Needed Data Channels	Needed Pre Calc Channels	Needed Constants	Math Channel	AiM Channel Parameters	
RadF Radius Feet	Creates a channel that outputs the driven radius of the vehicle in feet. Additionally, any radius value over 2000ft is displayed as zero values, this is to 'un-clutter' the result.	GPS_LatAcc (g) GPS_Speed (mph)	None	MPH2FTS (1.46667)	band_pass((GPS_Speed*MPH2FTS)^2/(GPS_LatAcc*32.2),- 2000,2000)	Unit of measure Full scale Zero scale Sampling rate Filter Use as speed channel?	feet 2000 -2000 20 0 No

"Switches" Channel Name	Description	Needed Data Channels	Needed Pre Calc Channels	Needed Constants	Math Channel	AiM Channel Parameters	
BRK On	Creates the BRK On channel when the GPS_LonAcc g's are less	GPS_LonAcc (g)	None	None	IF(LT(GPS_LonAcc,-0.15),1,0)	Unit of measure	on/off
(Brakes On)	than than -0.15g and may be required by other math channels.					Full scale	2
	The outputs are:					Zero scale	50
	0 = Brakes are off					Filter	0
	1 = Brakes are on					Use as speed channel?	No
	Creates the TDS On channel when the CDS Lendes als are greater		Nese	Nene		Unit of measure	on/off
TPS On	creates the TPS Off channel when the GPS_LORACL gis are greater	GPS_LONACC (g)	None	None	IF(GI(GPS_LOHACC,0.05),1,0)	Full scale	2
(Throttle On)	than 0.10g and may be required by other math channels. The					Zero scale	0
	outputs are:					Sampling rate	50
	U = Inrottle is off					Filter	0
	1 = Throttle is on					Use as speed channel?	No
CPN On	Creates the CRN On channel when the GPS LatAcc is greater	GPS_LatAcc (g)	None	None	IE(GT(abs(GPS_LatAcc),0.20),1.0)	Unit of measure	on/off
	than 0.2g's and may be required by other math channels. The					Full scale	2
(Corner On)	outputs are:					Zero scale	0
	0 = 0 n a straight					Sampling rate	50
	1 - In a corner					Filter	0
						Use as speed channel?	No
CST On	Creates the CST On channel when the driver is not on the brakes	None	BRK On	None	IF(GT(BRK On,0.5),0,IF(GT(TPS On,0.5),0,IF(GT(CRN On,0.5),0,1)))	Unit of measure	on/off
	(BRK On), on the throttle (TPS On), or in a corner (CRN On) and		TPS On			Full scale	2
(Coast On)	may be required by other math channels. The outputs are:		CRN On			Zero scale	0
	0 = Not coasting					Sampling rate	50
	1 = Coasting					Filter	0
	1 - Cousting					Use as speed channel?	No

"GPS Driver" Channel Name	Description	Needed Data Channels	Needed Pre Calc Channels	Needed Constants	Math Channel	AiM Channel Parameters	
CST LapT	Outputs the time that the driver is coasting as shown by not	None	CST On	None	lap_integ(CST On)	Unit of measure	secs
(Coast Lap Time)	being on the brakes (BRK On), the throttle (TPS On), or in a corner					Full scale	5
	(CRN On). The output resets to zero at the start of each lap.					Zero scale	- U
						Filter	0
						Use as speed channel?	No
Cet LanD	Outputs the distance that the driver is coasting as shown by not	GPS_Speed (mph)	CST On	MPH2ETS	lan_integ(CST_On*GPS_Speed*MPH2ETS) 0	Unit of measure	feet
CSTLapD	being on the brakes (BRK On) the throttle (TPS On) or in a corner					Full scale	400
(Coast Lap Distance)	(CRN On) The output resets to zero at the start of each lan					Zero scale	0
						Sampling rate	50
						Filter	0
						Use as speed channel?	No
CST LapP	Outputs the percent of time that the driver is coasting as shown	None	CST LapT	None	(CST LapT*100)/time()	Unit of measure	%
(Coast Lan Borcont)	by not being on the brakes (BRK On), the throttle (TPS On), or in a					Full scale	10
(Coast Lap Fercent)	corner (CRN On). The output resets to zero at the start of each					Zero scale	0
	lap.					Sampling rate	50
	· F.					Filter	0
						Use as speed channel?	No
CRN LapT	Outputs the time that the driver is in a corner. The output resets	None	CRN On	None	lap_integ(CRN On)	Unit of measure	secs
(Corner Lap Time)	to zero at the start of each lap.					Full scale	120
(Zero scale	0
						Sampling rate	50
						Filter	0
						Use as speed channel?	INO
CRN LapD	Outputs the distance that the driver is in a corner. The output	GPS_Speed (mph)	CRN On	MPH2FTS	lap_integ(CRN On*GPS_Speed*MPH2FTS),0	Unit of measure	feet
(Corner Lap Distance)	resets to zero at the start of each lap.					Full scale	10000
						Zero scale	0
						Sampling rate	50
						Lise as speed channel?	No
	Outputs the persent of time that the driver is in a server. The	Nene	CDN LonT	Nepe	(CDNL anT * 100) / time ()		0/
CRN LapP	outputs the percent of time that the driver is in a corner. The	None	CRIN Lap I	None	(CRN Lap1 · 100)/ time()	Full scale	100
(Corner Lap Percent)	output resets to zero at the start of each lap.					Zero scale	0
						Sampling rate	50
						Filter	0
						Use as speed channel?	No
C Sum	Outputs the abs value of the sum of the GPS LatAcc and	GPS_LatAcc (g)	None	None	sgrt((GPS_LatAcc^2)+(GPS_LonAcc^2))	Unit of measure	g
G Sum	GPS LonAccivalues.	GPS_LonAcc (g)				Full scale	2.5
(Lat and Long g Sum)						Zero scale	0
						Sampling rate	20
						Filter	0
						Use as speed channel?	No

"Braking" Channel Name	Description	Needed Data Channels	Needed Pre Calc Channels	Needed Constants	Math Channel	AiM Channel Parameters	
BRK LapT (Braking Lap Time)	Outputs the time that the driver was on the brakes in seconds. Starts each lap from zero and counts up for each lap.	None	BRK On	None	lap_integ(BRK On)	Unit of measure Full scale Zero scale Sampling rate Filter Use as speed channel?	secs 60 0 50 0 No
BRK LapD (Braking Lap Distance)	Outputs the number of feet that the driver was on the brakes in feet. Starts each lap from zero and counts up for each lap.	GPS_Speed (mph)	BRK On	MPH2FTS (1.46667)	lap_integ(BRK On*GPS_Speed*MPH2FTS),0	Unit of measure Full scale Zero scale Sampling rate Filter Use as speed channel?	ft 5000 0 50 0 No
BRK LapP (Braking Lap Percent)	Outputs the percent of time that the driver was on the brakes. Starts each lap from zero and displays the percentage for each lap.	None	BRK LapT	None	(BRK LapT*100)/time()	Unit of measure Full scale Zero scale Sampling rate Filter Use as speed channel?	% 50 0 50 0 No
BRK SessT (Braking Session Time)	Outputs the time that the driver was on the brakes in seconds. Starts each session from zero and counts up for the entire session.	None	BRK On	None	integ(BRK On)	Unit of measure Full scale Zero scale Sampling rate Filter Use as speed channel?	secs 1000 0 50 0 No
BRK SessF (Braking Session Feet)	Outputs the number of feet that the driver was on the brakes in feet. Starts each session from zero and counts up for the entire session.	GPS_Speed (mph)	BRK On	MPH2FTS (1.46667)	integ(BRK On*GPS_Speed*MPH2FTS)	Unit of measure Full scale Zero scale Sampling rate Filter Use as speed channel?	ft 100000 0 50 0 No