

APPENDIX F – DAQAHRS-MK SPECIFIC CONFIGURATION SPECIFICATION

Each specific MK number shall be defined by completion and agreement with each customer of the following configurable parameters table associated with the ISM and GPS modules. Not all combinations may be possible and parameters can only be output on interfaces that provide sufficient bandwidth, which will be assessed by Nginuity.

Parameter	Options (Select one per box by deleting as applicable)		
Interfaces	Parameter 1	Parameter 2	Parameter 3
CAN Interface	Disabled / 1Mbps / 500kbps / 250kbps / 125kbps	ISM / GPS / Both	
Configuration Mode	CAN / ARINC 825		
CAN Base ID 1 and 2:			
ARINC 429 Interface	Disabled / 12.5kHz / 100kHz	ISM / GPS / Both	
Serial 1 Interface	Disabled / RS232 / RS422 / RS485	115200 / 57600 / 38400 / 19200 / 9600 / 4800 / 2400 / 1200	ISM / GPS / Both
Serial 2 Interface	Disabled / RS232 (only available if Serial 1 is RS232)	115200 / 57600 / 38400 / 19200 / 9600 / 4800 / 2400 / 1200	ISM / GPS / Both
ISM Set Up			
ISM Parameter Output Rate	1Hz/ 5Hz/ 10Hz/ 20Hz/ 50Hz/ 100Hz/ 200Hz/ Table 2		
Gyro Range	±500°/s / ±2000°/s		
Accelerometer Range	±8g / ±16g		
Accelerometer Digital Filter Cut Off Frequency	Disabled (Full Bandwidth) / 10Hz / 4Hz / 1Hz		
Airspeed Inertial Augmentation	Internal GPS / External CAN / External Serial 1 / External Serial 2		
GPS Set Up			
GPS Parameter Output Rate	1Hz / 2Hz / 5Hz / 10Hz / Table 2		
GPS Update Rate	1Hz / 2Hz / 5Hz / 10Hz		
GPS Differential Mode	Disabled / Enabled (only available at 1Hz update rate)	SBAS / RTCM 104 (requires Serial Interface)	
Antenna Bias Voltage	Disabled (Passive) / +3.3V / +5V		
Lithium Battery Back-Up	None / Present		
ISM Output Parameters (Simple: all at fixed output rate)	Simple / Detailed in Table 2	Roll Angle / Pitch Angle / Heading Angle / Body Roll Rate / Body Pitch Rate / Body Yaw Rate / Body Longitudinal (X) Acceleration / Body Lateral (Y) Acceleration / Body Normal (Z) Acceleration / X Magnetic Field / Y Magnetic Field / Z Magnetic Field / Pressure / ISM Status (Discrete Data #1)	
GPS Output Parameters (Simple: all at fixed output rate)	Simple / Detailed in Table 2	Time / Date / Latitude (if A429 110/310) / Longitude (if A429 111/311) / Altitude / Altitude Difference / HDOP / No. of Satellite + Fix Status / Ground Speed (if A429 112/312) / Track Angle (if A429 103/313) / GPS Status#1 (Discrete Data #2) / GPS Status#2 (Discrete Data #3)	
Company:		Name:	
		Signed:	
		Date:	
For Nginuity Use Only :		Verified	
		MK No.	
		Date	