

A small list of IMU / INS / INU

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I've collected some information about small IMU (Inertial Measurement Units) and INS (Inertial Navigation System, aka Inertial Navigation Unit or INU) for my research and I think this might be of interest to others. The information provided is minimal (only the presence of gyros, accelerometers and GPS is mentioned); feel free to dig in the manufacturer's website to get more info.

As with the other hardware lists that I maintain, I welcome readers and manufacturer's additions, comments and updates. As you can imagine I don't have the time to google the web every week to keep the page up-to-date ;)

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Random photo



Model	Manufacturer	Gyro	Accel	Magn	Techno	GPS	Weight	Price	
	#	Range [deg/s]	#	Range [G]	#				
Daisy-7	ACME Systems	3	2000	3	8	3	MEMS	Yes	EUR 99
Adjacent Reality	open hardware	3		3		3	MEMS	no	0
Spatial	Advanced Navigation	3	2000	3	16	3	MEMS	Yes	25 USD 3000
Spatial Dual	Advanced Navigation	3	2000	3	16	3	MEMS	Yes	300 USD 10000
Spatial FOG	Advanced Navigation	3	490	3	10	3	FOG	Yes	860 USD 27000
ARN-NS0535	Aeron Systems	3	300	3	6	3	MEMS		400
impactAIMS	AIMS			3	6		MEMS		60
uMotion	AIMS	3	150	3	8		MEMS		90
Navigation	AIMS	3	120	3	2		MEMS	yes	400
FOG	AIMS	3	75	3	6		MEMS/FOG		500
AHRS/INS	American GNC	3		3			MEMS		
AHRS/INS/GPS	American GNC	3		3			MEMS	yes	
AHRS/INS/DGPS	American GNC	3		3			MEMS	yes	
ADIS16355	Analog Devices	3	300	3	10		MEMS		16 USD 600
Opal	APDM	3	2000	3	6	3	MEMS		22
AHR150A-1	Archangel Sys.	3		3		3	MEMS		1400
3D-Bird	Ascension	3	1000				MEMS		29 EUR 1360
INU	Atair Aerospace	3	300	3		3	MEMS	yes	30
Micro INS	Athena (Rockwell)	3	200	3	7	3	MEMS	yes	115
SensorPac	Athena (Rockwell)	3	200	3	7	3	MEMS	yes	1000
SiIMU 01	Atlantic Inertial Systems (BAE)	3	1000	3	50		MEMS		250
SiIMU 02	Atlantic Inertial Systems (BAE)	3	14000	3	100		MEMS		100
SiNAV 02	Atlantic Inertial Systems (BAE)	3	14000	3	100		MEMS	yes	300
MMQ 50	BEI Systron Donner	3	200	3	10		MEMS		
MMQ-G	BEI Systron Donner	3		3			MEMS	yes	230
C-MIGITS III	BEI Systron Donner	3	1000	3	15		MEMS	yes	1100
MiniSense 2	CDLTD	3		3			MEMS	input	
TOGS	CDLTD	3					RLG	input	10500
MiniRLG2	CDLTD	3					RLG	input	9800
MiniPOS2	CDLTD	3					RLG	input	9800
MiniPOS/NAV	CDLTD	3					RLG	input	9000
MiniTilt									

	CDLTD						MEMS		1150	
MicroTilt	CDLTD						MEMS		500	
MiniSense	CDLTD						MEMS		500	
ADAHRS	Chelton Avionics						MEMS	input	700	USD 26000
CHR-6d	CH Robotics	3	400	3	3	0	MEMS	no	1.5	USD 125
CHR-6dm	CH Robotics	3	400	3	3	3	MEMS	no	4	
CHR-6um6	CH Robotics	3	2000	3	2	3	MEMS	no	9	
GP9	CH Robotics	3	2000	3	8	3	MEMS	yes	11	USD 320
Crista	Cloudcap	3	300	3	10		MEMS		18.8	USD 2000
Piccolo	Cloudcap	3	300	3	10		MEMS	yes		USD 6000
Terrella 6	Clymer Tech.	3	2000	3	2	3	MEMS		17	USD 1300
X200	CyberAtom	3	2000	3	4	3	MEMS		3	
X201	CyberAtom	3	2000	3	4	3	MEMS		2.5	
NAV 420	Crossbow	3	200	3	10	3	MEMS	yes	580	
NAV 425EX	Crossbow	3	200	3	10	3	MEMS	yes	580	
NAV 440	Crossbow	3	200	3	10	3	MEMS	yes	580	6000
AHRS500	Crossbow		200		10		MEMS		1600	USD 14200
IMU440	Crossbow	3	200	3	4		MEMS	yes	580	
IMU700CB	Crossbow	3	200	3	4		FOG		1600	USD 12000
Veronte Autopilot	Embention	3	300	3	6	3	MEMS	yes	90	EUR 2700
FOG-120/INS	GEM elettronica	3	500	3	10		MEMS	input	7000	
FOG-200/INS	GEM elettronica	3	250	3	30		Quartz	input	7000	
SURF100	GEM elettronica	3	80	3	30		Quartz	input	30000	
Landmark 10 IMU	Gladiator Tech.	3	150	3	3		MEMS			USD 2495
Landmark 10 IMU/GPS	Gladiator Tech.	3	300	3	12		MEMS	yes		USD 4995
Landmark 20 IMU	Gladiator Tech.	3	300	3	10		MEMS			USD 3995
Landmark 20 IMU/GPS	Gladiator Tech.	3	300	3	10		MEMS	yes		USD 5995
Landmark 10 GPS/AHRS	Gladiator Tech.	3	300	3	12	3	MEMS	yes		
Landmark 10 AHRS	Gladiator Tech.	3	300	3	12	3	MEMS			
Landmark 30	Gladiator Tech.									USD 6600
Surfer	GNC SOLUTIONS	3	2000	3	16		MEMS	no	150	EUR 400
HG 1700	Honeywell	3	1000	3	50		RLG		900	USD 9000
AG-1	Icewire	3	2000	3	6		MEMS	No	25	USD 199
iNAV-FMS-T	iMAR	3		3			FOG	input		
iIMU-FSAS	iMAR	3		3			FOG			
iIMU-FR-M1	iMAR	3		3				input		
iVRU-FAS-C167-IGS	iMAR	3		3			FOG/MEMS	input	1600	
iVRU-FC-C167-MSL	iMAR	3		3			FOG/MEMS	input	1600	
iVRU-SSA-C167	iMAR	3		3			FOG/MEMS	input	800	
iVRU-SSKS-C167	iMAR	3		3			MEMS	input	800	
iVRU-SBA1-C167	iMAR	3		3			FOG/MEMS	input	1600	
iVRU-FA-C167	iMAR	3		3			MEMS	input	1200	
iVRU-FKS-C167	iMAR	3		3			FOG/MEMS	input	1600	

iTGAC-FK	iMAR	3		3			FOG/MEMS		900	
iHRP(Y)	iMAR						FOG/RLG	input	900	
iNAV-FMS	iMAR	3		3			FOG/RLG	yes	5200	
iDIS-FMS	iMAR	3		3			FOG	yes	5200	
iFLY	iMAR									
iuIMU-02	iMAR	3	250	3	2	1	MEMS	yes	50	
iTraceRT-F200	iMAR	3	450	3	5		FOG	yes	3000	
OptoAHRS	Inertial Labs	3	300	3	2	3	Optical/MEMS	no	600	USD 7499
AHRS-1	Inertial Labs	3	1000	3	6	3	MEMS	no	73	USD 3499
AHRS-2	Inertial Labs	3	1000	3	6	3	MEMS	no	73	USD 2999
VG	Inertial Labs	3	1000	3	6	0	MEMS	no	70	USD 2699
OS3D	Inertial Labs	3	2000	3	16	3	MEMS	no	12	USD 999
OS3DM	Inertial Labs	3	2000	3	16	3	MEMS	no	2	USD 999
OS3D-FG	Inertial Labs	3	2000	3	8	3	MEMS	no	12	USD 799
GPS-aided INS	Inertial Labs	3	500	3	6	3	MEMS	yes	200	USD 3799
ISIS-IMU	Inertial Science	3	3000	3	500		MEMS		250	
ISIS-GPS	Inertial Science	3					MEMS	yes		
DMARS-R	Inertial Science	4		3			MEMS	input		
DMARS-I	Inertial Science	4		3			MEMS	input	1800	
DMARS-GARS	Inertial Science	3					MEMS	yes		
uiINS-2	Inertial Sense LLC	3	2000	3	16	3	MEMS	yes	2	USD 995
uiIMU-2	Inertial Sense LLC	3	2000	3	16	3	MEMS	yes	2	USD 500
InertiaCube2	InterSense	3	1200	3		3	MEMS		25	USD 1500
InertiaCube3	InterSense	3	1200	3		3	MEMS		17	USD 1800
MPU-9150	Invensense	3	2000	3	16	3	MEMS	no	0.1	USD 80 (kit)
MPU-6000	Invensense	3	2000	3	12		MEMS		0.1	USD 15
KN-4072	Kearfott						RLG		5000	
KN-4072A	Kearfott						RLG	yes	5000	
KN-4073B	Kearfott						RLG		3700	
KN-4074	Kearfott						RLG	yes	5000	
KN-4075	Kearfott						RLG	yes	5450	
KN-4077	Kearfott						RLG	yes	3700	
KN-4051/2/3	Kearfott								8000	
KN-4051/2/3G	Kearfott							yes	8000	
KI-4801	Kearfott						RLG		3200	
KI-4901	Kearfott						RLG	input	3800	
KI-4902	Kearfott						RLG	input	3800	
KMX62	Kionix			3	16	3	MEMS	no		
KMX62G	Kionix	3	2000	3	16	3	MEMS	no		
KXG03	Kionix			3	16		MEMS	no		
TG-6000	KVH	3	750	3	70		FOG		1800	USD 25000
CNS-5000	KVH	3	375	3	10		FOG/MEMS	yes	2360	USD 30250
LPMS-B2	LP Research	3	2000	3	16	3	MEMS	no	12	USD 500
LPMS-USBAL2	LP Research	3	2000	3	16	3	MEMS	no	36	

LPMS-CURS2	LP Research	3	2000	3	16	3	MEMS	no	3.1	
LPMS-CU2	LP Research	3	2000	3	16	3	MEMS	no	20	USD 400
LPMS-URS2	LP Research	3	2000	3	16	3	MEMS	no	20	
LPMS-UTTLL2	LP Research	3	2000	3	16	3	MEMS	no	20	
LPMS-CANAL2	LP Research	3	2000	3	16	3	MEMS	no	67.5	
LPMS-RS232AL2	LP Research	3	2000	3	16	3	MEMS	no	67.5	
micro IMU	Memsense	3	1200	3	5	3	MEMS		150	
nano IMU	Memsense	3	1200	3	5	3	MEMS		15	EUR 2100
IMU 3020	Memsense	3	1920	3	15	3	MEMS		20	USD 1120
IMU 3050	Memsense	3	480	3	10	3	MEMS			
MIDG II	Microbotics	3	300	3	10	3	MEMS	yes	55	USD 6750
MP 2028g	MicroPilot	3	150	3	2		MEMS	yes	28	USD 5000
3DM-GX1	MicroStrain	3	300	3	5	3	MEMS		30	USD 1500
3DM-GX2	MicroStrain	3		3	5	3	MEMS			
3DM-GX3-25	MicroStrain	3		3		3	MEMS			USD 2295
3DM-GX3-35	MicroStrain	3		3		3	MEMS	yes		USD 3075
3DM	MicroStrain			3		3	MEMS			
3DM-DH	MicroStrain			3		3	MEMS			
INERTIA-LINK	MicroStrain	3		3			MEMS			
LN-200	Northrop-Grumman	3	1000	3	40				700	
Summit 34203A	Omni Instr.			3	5		MEMS		35	
Falcon GX	O-Navi	3	300	3	10		MEMS		11.5	USD 1000
Phoenix AX	O-Navi	3	300	3	10		MEMS	yes		USD 1200
UM6	Pololu	3	2000	3	2	3	MEMS	input	7	USD 200
FreeIMU	open hardware	3		3		3	MEMS		0	
AHRS200A	Rotomotion	3	90	3	20	3	MEMS			
AHPRS200A	Rotomotion	3	90	3	20	3	MEMS	yes		
CHIMU	Ryan Mechatronics	3	500	3	3	3	MEMS	No	5	USD 299
Nav Board M3	Ryan Mechatronics	3	2000	3	3	3	MEMS	No	40	USD 299
Ellipse-A	SBG Systems	3	900	3	16	3	MEMS	no	45	
Ellipse-E	SBG Systems	3	900	3	16	3	MEMS	input	49	
Ellipse-N	SBG Systems	3	900	3	16	3	MEMS	yes	47	
Ellipse-D	SBG Systems	3	900	3	16	3	MEMS	yes	210	
Ekinox-A	SBG Systems	3	400	3	30	3	MEMS	no	350	EUR 13500
Ekinox-M	SBG Systems	3	400	3	30	3	MEMS	no	350	EUR 18000
Ekinox-E	SBG Systems	3	400	3	30	3	MEMS	input	400	
Ekinox-N	SBG Systems	3	400	3	30	3	MEMS	yes	500	
Ekinox-D	SBG Systems	3	400	3	30	3	MEMS	yes	600	
MovelT Senspod	Sensaris	3		3		3	MEMS	yes		
STIM210 (single axis)	Sensoror	1	400				MEMS	no		EUR 1907
STIM210	Sensoror	3	400				MEMS	no		USD 5500
STIM300	Sensoror	3	400	3	10	3	MEMS	no	35	USD 8600

STM32F3DISCOVERY	ST Semiconductors	3		3		3	MEMS	no	USD 10.66
65210A	Summit Instr.		1000		40			yes	1515
65210E	Summit Instr.		1000		40			yes	1520
CompaNav 2	Teknol	3	150	3	2	3	MEMS	input	300
CompaNav 2T	Teknol	3	150	3	2	3	MEMS	input	300
Autopilot	Teknol	3	150	3	10		MEMS	input	350 USD 6000
Nanosatellite	Tethers Unlimited	3		3		3	MEMS	input	
CC2541 DevKit	Texas Instruments	3		3		3	MEMS	no	USD 25
Colibri	Trivisio	3	1500	3	16	3	MEMS	no	22 550
Colibri wireless	Trivisio	3	2000	3	6	3	MEMS	no	41 800
Atom	UAV NAVigation	3	1800	3	8	3	MEMS	input	20
Polar	UAV NAVigation	3	300	3	8	3	MEMS	yes	2
Vector	UAV NAVigation	3	300	3	8	3	MEMS	yes	300
Proton	UAV NAVigation	3	1600	3	8	3	MEMS	yes	50
VN-100 SMD	Vectonav Technologies	3	2000	3	16	3	MEMS	no	3.5 USD 500
VN-100 Rugged	Vectonav Technologies	3	2000	3	16	3	MEMS	no	15 USD 800
VN-200 SMD	Vectonav Technologies	3	2000	3	16	3	MEMS	yes	4 USD 2100
VN-200 Rugged	Vectonav Technologies	3	2000	3	16	3	MEMS	yes	16 USD 2600
VN-300	Vectonav Technologies	3	2000	3	16	3	MEMS	dual	5
VN-300 Rugged	Vectonav Technologies	3	2000	3	16	3	MEMS	dual	30
VN-360	Vectonav Technologies	3	2000	3	16	3	MEMS	dual	5
VN-110	Vectonav Technologies	3	490	3	15	3	MEMS	no	160
VN-210	Vectonav Technologies	3	490	3	15	3	MEMS	yes	190
VN-310	Vectonav Technologies	3	490	3	15	3	MEMS	dual	200
x-IMU	x-io	3	2000	3	8	3	MEMS	no	12 GBP 249
MTi-10 IMU	Xsens	3	1000	3	15	3	MEMS	no	52 EUR 700
MTi-20 VRU	Xsens	3	1000	3	15	3	MEMS	no	52 EUR 1000
MTi-30 AHRS	Xsens	3	1000	3	15	3	MEMS	no	52 EUR 1200
MTi-100 IMU	Xsens	3	1000	3	15	3	MEMS	no	52 EUR 1400
MTi-200 VRU	Xsens	3	1000	3	15	3	MEMS	no	52 EUR 2600
MTi-300 AHRS	Xsens	3	1000	3	15	3	MEMS	no	55 EUR 2800
MTi-1 IMU	Xsens	3	2000	3	16	3	MEMS	no	0.66 EUR 60
MTi-2 VRU	Xsens	3	2000	3	16	3	MEMS	no	0.66 EUR 65
MTi-3 AHRS	Xsens	3	2000	3	16	3	MEMS	no	0.66 EUR 70 (DevKit EUR 399)
MTi-G-710 GNSS/INS	Xsens	3	1000	3	15	3	MEMS	yes	55 EUR 3800
3-Space USB	Yost Labs	3	250/500/2000	3	2/4/8	3	MEMS	no	17.86 USD

										145
3-Space Embedded	Yost Labs	3	250/500/2000	3	2/4/8	3	MEMS	no	1.3	USD 99
3-Space Wireless 2.4G	Yost Labs	3	250/500/2000	3	2/4/8	3	MEMS	no	28.4	USD 220
3-Space Bluetooth	Yost Labs	3	250/500/2000	3	2/4/8	3	MEMS	no	28.2	USD 290
3-Space Data-logging	Yost Labs	3	250/500/2000	3	2/4/8	3	MEMS	no	28.35	USD 180
3-Space Data-logging HH	Yost Labs	3	250/500/2000	3	6/12/24	3	MEMS	no	28.35	USD 192

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