Eggtimer Altimeter	Comparison					
	Apogee	Quark	ION	Quantum	Proton	Quasar
Cost	\$15	\$20	\$20	\$40	\$80	Quasar \$100
	\$15	\$20	\$20	\$40	Ş80	
	Circle evitevit			Dual dealer month		GPS Tracking
	Single-output	Dual daalaumaat		Dual-deployment	A duran and Elistat	Transmitter and WiFi-
T	deployment	Dual-deployment		Flight computer	Advanced Flight	Enabled Flight
Туре	controller	controller	Flight Data Logger		computer with WiFi I/F	Computer Combo
No. of outputs	1 (@Apogee)	2	0	2	6	3
Altitude Rating	60,000'	60,000'	60,000'	60,000'	60,000'	60,000'
Mach-Safe?	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Accelerometer	None	None	None	None	200G	None
Programming I/F	None	Jumpers	WiFi/Browser	WiFi/Browser	WiFi/Browser	WiFi/Browser
			Flight milestones			
			and	Flight milestones	Flight milestones and	Flight milestones and
			measurements	and measurements	measurements via	measurements via
Immediate Post-flight data	Apogee beep-out	Apogee beep-out	via WiFi/browser	via WiFi/browser	WiFi/browser	WiFi/browser
			Altitude, velocity,	Altitude, velocity,	Altitude, velocity,	Altitude, velocity, (raw
			(raw & filtered),	(raw & filtered),	acceleration, (raw &	& filtered), flight
Data recording	Apogee beep-out	Apogee beep-out	flight events	flight events	filtered), flight events	events
No. of flights saved	1	1	14	14	14	14
				With ETM: R/T	With ETM: R/T altitude,	
			With ETM: R/T	altitude, velocity,	velocity, acceleration,	
			altitude, velocity,	flight status,	flight status, channel	
		With ETM: R/T altitude,	flight status,	channel status,	status, apogee, max	Built in: GPS
		flight status, channel	apogee, max	apogee, max	velocity, max	coordinates, altitude,
Telemetry Support	None	status, apogee	velocity	velocity	acceleration	channel status, apogee
Backup Drogue Settings	0	1	n/a	9	9	9
		300'-1000'				
Main Channel Range	n/a	4 settings	n/a	100'-2000'	100-2000'	100-2000'
Lawn-Dart ("Failsafe")						
detection?	n/a	No	n/a	Yes	Yes	Yes
Channel "On" Time	2 secs fixed	2 secs fixed	n/a	1-9 secs, cont.	1-9 secs	1-9 secs
Servo Support	None	None	n/a	Yes, Main/Drog.	Yes, Ch 1-3 on descent	Yes, all 3 channels

Airstart Support	No	No	n/a	Yes (2 channels)	Yes (6 channels)	Yes
					Altitude,Velocity,	
				Altitude,Velocity,	Breakwire, Baro/Accel	
Airstart Safeties	n/a	n/a	n/a	Breakwire	Deviation (tilt detect)	Altitude, Velocity
				time after	time after LDA, time after	
				calculated start-of-	burnout (6 burnouts	time after calculated
Airstart triggers	n/a	n/a	n/a	flight	supported)	start-of-flight
Cluster Mode?	n/a	n/a	n/a	No	Yes	No
	Screw Switch (built-					
	in), at Power-on		Remote via WiFi,			
	(after last flight		auto-arm after 60			
	apogee beep out	At Power-on (after last	secs (selectable),	Remote via WiFi,	Remote via WiFi, auto-	Remote via WiFi, auto-
	and continuity	flight apogee beep out	built-in power	auto-arm after 60	arm after 60 secs	arm after 60 secs
Arming	check)	and continuity check)	switch	secs (selectable)	(selectable)	(selectable)
					100'-500'; acceleration	
LDA Settings	Fixed (200')	Fixed (200')	50'-500'	50'-500'	G's for time	50'-500'
Samples on Ascent	20/sec	20/sec	10-33/sec	10-33/sec	10-33/sec	10-33/sec
Samples on Descent	2/sec	2/sec	1-10/sec	1-10/sec	1-10/sec	1-10/sec
			1S LiPo (built-in			
	1S LiPo (built-in JST-		JST-PH			
Battery,	PH connector),	2S LiPo,	connector),	2S-3S LiPo,	2S-3S LiPo, 300	2S LiPo,
Recommended size	100 mAH+	100 mAH+	300 mAH+	300 mAH+	mAH+	500 mAH+
Reverse-polarity						
protected?	Yes	Yes	Yes	Yes	Yes	Yes
Supports Separate						
Deployment Battery?	No	No	n/a	Yes; 2S-4S	Yes ; 2S-6S	No
Channel Current Rating	8A	8A	n/a	8A	10A	10A
Total Current Rating	8A	8A	n/a	16A	30A	20A
Dual-switched?	No	No	n/a	Yes	Yes	Yes

		Uses advanced automotive-type drivers with overcurrent,			Uses advanced automotive-type drivers with overcurrent,	Uses advanced automotive-type drivers with overcurrent,
		overvoltage, reverse			overvoltage, reverse	overvoltage, reverse
		polarity, temperature			polarity, temperature	polarity, temperature
Outputs opto-isolated?	Yes	protection	n/a	Yes	protection	protection
Assembly Type	All through-hole	Mostly SMT	Mostly SMT	Mostly SMT	Mostly SMT	Mostly SMT
Difficulty (1-5)	1	3	2	3	5	5
	Relatively few		Large SMT parts,	Large SMT parts,		GPS module pre-
				but a fair amount	Larga SMT parts but late	•
	parts, all through-		relatively easy		Large SMT parts, but lots	mounted; large SMT
Assembly Notes	hole	Small SMT parts	build	of them	of them	parts, but lots of them