APLICOM A9

Compact telematics unit with expandable functionality - for any vehicle

Aplicom A9 is reliable, accurate and expandable. Versatile software functionalities and several connectors make it suitable for all kinds of telematics applications. An unlimited amount of configurations and OTA upgradability allow it to be expanded to fit the end-customer's requirements in the future as well.

A well proven two-processor architecture, an internal back-up battery and inbuilt alarm functions are included to ensure the reliability of the A9 device.

Two trip counters, industry leading GPS sensitivity and optional GLONASS (with position accuracy of 1,5 m) provide for a superior user experience in your tracking portal.

EXPANDABLE APLICOM A9 FOR ADVANCED TELEMATICS offers you the functionalities needed for precise GPS tracking, mileage reporting, power management, driving style analysis and data communication. Easy configuration tools provided for system and service providers, and the unlimited amount of configurations make the A9 unit flexible for different end-user applications. New configurations can be updated quickly and effortlessly over the air.

THE CONNECTIONS OF A9 ARE VERSATILE with the following being available: CAN based OBD II, COM port, 3PAD, iButtons etc. The 3PAD enables the use of the A9 as an electronic logbook. The geofencing function allows the definition of prohibited areas, locations with status triggers, alarm zones, work force management control and exact kilometres together with time for customer charging purposes. Most demanding mobile workforce tasks can be managed by combining geofence features with the status buttons on the keypad.

RELIABLE OPERATION IS ENSURED through the intelligent two-processor architecture of A9, where the two processors act as each other's back up and support. There is also an internal back-up battery which allows continued operation and alarming even in exceptional situations where the main input power is removed or the cables cut. All Aplicom products go through extensive tests for low and high temperatures, vibrations and other environmental conditions to withstand being in the vehicle and other demanding environments.

A9 IS EASY TO INSTALL AND QUICK TO USE. Its small size and rugged exterior provide numerous installation possibilities. The configuration tools provided by Aplicom help customers to get the unit up and running quickly and with ease.

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Technical data
Aplicom A9

Factory installed A9 tracking software.
- Fully configurable event to action based operation with optional conditional execution (AND, OR, IF operators)
- Quick steps for first use with simple local settings (also with SMS message) and ready made default configuration for tracking and tracing
- Sending of event based snapshots to server according to configuration
- Events: Time interval, Distance, Geofence, Start/Stop moving, Direction change, Driver-ID read, IGN on/off, Speed limit, Battery low, Alarm active, Input/Output changed, heading change, A/D threshold, Comm fail, flag changed, GPS/GLONASS status changed, data event from incoming SMS or TCP message, net changed, scheduled event, harsh braking, acceleration limit, accident etc.
- Accurate accelerometer and GPS or GPS/GLONASS position based distance calculation
- Open protocols for server connectivity with optional security and certificates (same as in Aplicom A1). Bearers: GPRS: TCP/UDP, SMS
- Protocols: data, compact and verbose text, full IMEI identification. R-protocol with session timeout for end to end acknowledgements
- Data protocol report size optimised with selectable content for saving costs
- Roaming with LAI list control: Operator allowed / not allowed and non-critical reporting can be prevented and reports optionally stored to nonvolatile memory
- Power outage detection, back-up battery operation, timed wake-up positioning capability
- Over-the-air (OTAP, OTA) configuration and updates, remote diagnostics and file management

Aplicom A9 is available with a GPS-only receiver and with the combination of GPS and GLONASS receivers (A9 GLONASS).

GPRS platform	Quad-Band GPRS multislot	**Common connections**	Connector for unit SW and configuration management, optional COM (RS232) port for application use
Memory	1,7 MB FLASH 400 KB RAM		
Coprocessor	ARM7, realtime processing, Watch dog		General connectors (Molex): Main connector, 9 pin: - Power supply 6,8...32VDC

GPS	48 channel module,
	-163dBm, <2,5m (CEP 50)
	2 trip distance counters
			- IGN on/off or general input 1/AD*
			  - General input 2*
			  - Output: OC, 150mA/Dout 5mA
			  - CAN optional SW required
			  - Internal battery connection

GLONASS **(in A9 GLONASS)**	32 channel, -162 dBm Position accuracy (CEP50): 1,5m		- GND

Power supply	6,8...32VDC (nominal +12V)
	Typical: <100mA
	Max (peak): 1A / <1s
	Stand by: <3mA
	Stand by: <1mA from internal battery
	Transient and polarity protected
	Internal fuse 2A
			Note*: Input hi 5-32V / AD 0-5 V scale
			
			Bus1, 1-Wire, 3 pin:
			  - Driver ID reader
			  - 3PAD

Internal battery	Li-Ion 200mAh, operational backup	**Operating conditions**	-30°C...+65°C 0°C...+45°C internal battery charge -5°C...+60°C internal battery operating
User interface	LED indicator Led A – Red/Green under application SW control		-40°C...+70°C storage humidity +95 % max
SIM	SIM holder inside the unit, under top cover, easy to open without tools	**Housing / material**	PC/ABS LG Chem HR5007A, black
RTC	Date, Time, Wake-up	**Dimensions**	112mm(L) x 61 mm(W) x15mm(H)
		Weight	70g
Acceleration sensor	+/-2-8g, movement detection and wake-up	**Application**	Aplicom ready-made tracking and telematics software (see above)
Antennas	GSM/GPRS antenna internal GPS or GPS/GLONASS ext. antenna, 3,2V<100mA MCX female connector	**Development tools**	Software configurator tool (A1 & A9)
		Approvals	**CE marking** 2004/108/EC (EMC directive)
Power switch	SW controlled power management, no mechanical switch, on/off switching options: IGN/input1, movement detection with acceleration sensor		**E-type** ECE r.10.03 (E-type approval) 1999/05/EC (RTTE) GOST-R (A9 GLONASS)

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