



LocationAssurance Device™

GSM™ Version

About LocationAssurance Manager (LAM)™

LAM is a service quality management and reporting platform for wireless location networks enabling carriers to achieve and maintain peak operating performance of their location infrastructure and services. LAM proactively monitors the end-to-end location system, identifies trouble spots and analyzes the Quality of Service (QoS) experienced by the subscriber. This allows wireless operators to reduce operating costs, mitigate business and regulatory risks and deliver superior levels of service. A location and air interface neutral solution, LAM has the ability to assess the performance of any commercially deployed location network (AGPS, GPS, TDOA, UTDOA, RFS) including CDMA, GSM and iDEN™.

About LAM LocationAssurance Device (LAD)™

LAM LocationAssurance Device test probes are a combination of hardware and software that automates in-field test call processes associated with testing, verifying, calibrating and evaluating the performance of location networks.

LADs behave like standard wireless handsets in the network and may be configured for mobile, or fixed operating modes. LADs autonomously generate test events based on their operating mode and localized environmental triggers. LADs are programmed over-the-air and utilize the wireless data network to deliver test event data to the LAM Network Server.

LADs are location-enabled to match the technology of the location network used by the carrier. Mobile and stationary LADs are equipped with a standalone GPS receiver (with optional support of DGPS multiple SBAS systems like WAAS and EGNOS) used to measure ground truth reference data for each test event. Fixed LADs are pre-programmed with a surveyed ground truth reference. Each LAD is equipped with a micro-controller (CPU) and associated scripts for call initiation, termination and test personalities.

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INDEPENDENT LOCATION TECHNOLOGY

- 16-Channel GPS (WAAS enabled)
- 3 meter CEP (with SA off)

Positioning technology
provided by 

COMMUNICATION MODES

- GPRS
- SMS
- DTMF signaling

INTEGRATED COMMUNICATION MODULE

- GSM/GPRS (waveCom Q2426)



VOICE GENERATION

- Up to 15 minutes digitally recorded/stored voice

TEST EVENT MODES

- Location Quality of Service
- Mobile-originated voice (911/411)
- Network-initiated (idle mode)

RF Network Performance Measurement

- Active channel data collection
- Idle channel data collection

SIZE

- 6.35" x 3.5" x 1.5"

WEIGHT

- 14 ounces

POWER SOURCE

- 9 – 36 VDC
- AC/DC power adapter option (wall plug module)

POWER CONSUMPTION

- Less than 500 mA at 12V (active)
- Less than 25 mA (sleep mode)

ENVIRONMENTAL

- Operating Temperature: -20° C to 55° C
- Storage Temperature: -30° C to 85° C
- Humidity: 95% RH @ 50° non-condensing

SHOCK & VIBRATION

- U.S. Military Standard 202G and 810F, SAE J1455

EMC/EMI

- SAE J1113

MOUNTING

- Flanges for tie wraps or screws

STATUS INDICATORS

- 2 built-in LEDs for modem and GPS status
- Over-the-air status messaging

CONNECTORS

- TNC (cellular/PCS antenna)
- SMA (reference GPS antenna, 3.3v)
- 6 pin Molex (power, ignition, I/O)
- 16 pin Molex (serial, expansion adapter)

CONFIGURATION / PROGRAMMING

- Provisioning
 - Serial RS-232 (via provisioning cable)
- Firmware Updates
 - Over-the-air via data network
- Script/Parameter Changes
 - Over-the-air via data network

ACCESSORIES

Mobile Kit

- GPS antenna (through hole or magnetic mount)
- Comm antenna (PCS/cellular)
- 3-wire vehicle harness

Indoor Kit

- Comm antenna (PCS/cellular)
- AC/DC power adapter
- 3-wire fixed harness

Outdoor Kit

- GPS antenna (through hole or magnetic mount)
- Comm antenna (PCS/cellular)
- AC/DC power adapter
- 3-wire fixed harness

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