Спецификации: AirMagnet Enterprise SmartEdge, Series 4 Sensor

Purpose built with the latest 802.11n and cellular technology, cellular and Wi-Fi spectrum cards, and unique tri-radio design, the AirMagnet Enterprise SmartEdge, Series 4 Sensor delivers the most comprehensive, dedicated Wi-Fi and cellular monitoring Wireless Intrusion Prevention System (WIPS) solution.

- *Minimize monitoring system costs and complexity using active performance tests and full RF spectrum and cellular analysis*
- *Avoid expensive Ethernet cabling with the wireless connection mode that enables easy deployment*
- *Protect against rogue devices and unwanted Bring Your Own Device (BYOD) problems with continuous scanning of every Wi-Fi channel*
- *Keep security threat definitions current against the latest vulnerabilities with the Dynamic Threat Update (DTU) function*
- *Isolate performance issues and determine if it's a wireless or wired issue with the Automated Health Check (AHC) capability*

Mobile usage is growing, driven by the explosion of mobile devices running data-hungry applications like voice, video and other media-rich services. Add in the dynamic complexities of a wireless environment, and the need for strong security compliance and consistent high performance becomes critical in any enterprise.

Fluke Networks' intelligent SmartEdge, Series 4 Sensors support a wireless connection mode to any AP infrastructure and come with the latest 802.11n 3x3 MIMO 450 Mbps radio and cellular spectrum card. This means you get coverage everywhere without needing expensive Ethernet cabling.

As part of the AirMagnet Enterprise system, the sensors are part of the only WLAN and cellular-monitoring solution supporting dedicated spectrum analysis hardware for the most accurate and complete RF interference detection and remote real-time analysis.

Blends unnoticed in any environment

Integrated clamps for quick and easy mounting

*Internal and external antenna models*

Features and Benefits of SmartEdge, Series 4 Sensor

Leading WLAN cellular, and RF Monitoring

- Latest 802.11n 3x3 MIMO 450 Mbps for maximum detection range and enterprise compatibility. Enables detection and full analysis o devices and network traffic at full 450 Mbps rate, compatible with the latest enterprise APs. Complete protection against rogue APs u 802,11 data rate or channel
- Tri-radio capable for all-in-one WIPS, Wi-Fi and RF performance test and analysis. A single sensor can concurrently run both compr WIPS and proactive client view Automated Health Check (AHC) to detect WLAN outages, immediately pinpoint specific network perf cause anywhere from the AP to the cloud
- Dedicated Wi-Fi spectrum analysis radio scans 2,4 and 5 GHz bands continuously, performing automatic and custom RF interferenc classification. Individual alarms are generated for each interference classification type for the simplest detection, identification and re devices like wireless video cameras, microwave ovens and RF jammers
- Internal and external antenna models for optimal coverage
- Dedicated Spectrum analysis card monitors and reports on four types of cellular security violation events:
  - Mobile cellular events, e.g., calls made from a specific cellular network
  - Cellular interference events, e.g., cellular jammers
  - Non-cellular energy events, e.g., events taking place outside of the country's allocated cellular bandwidth
  - Base station cellular events, e.g., Base station beacons

Flexible Deployment

- Wi-Fi with WPA2-E security for quick deployment eliminates cabling costs. Wi-Fi backhaul to the AirMagnet Enterprise server over existing Wi-Fi infrastructure enables sensor deployment in critical areas where Ethernet cabling may be too expensive or even impossible to run
- Ethernet: 10/100/1000 Mbps, 802.3af PoE
- Designed to blend unnoticed into any environment, including hospitals, retail stores and VIP office suites which often have strict controls on aesthetic deployment of technical infrastructure. Visually "quiet" profile includes muted color and markings, side view indicator lights and fully recessed cable access
- Integrated clamps make mounting quick and easy, requiring no tools or extra parts for most deployments. The sensor can be attached in seconds to very common drop ceiling rails, and also includes a universal bracket bar for use in other types of installations
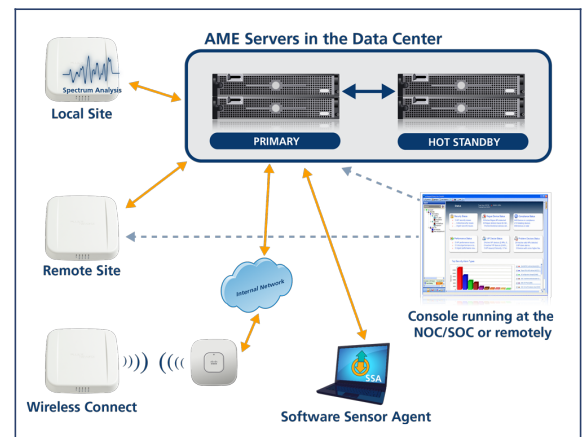
AME servers in the data center

Powerful WIPS Protection and Architecture

- Continuously scans every Wi-Fi channel, including all 200 in 5 GHz band to detect every rogue device
- Detection, monitoring, and remediation of spectrum activity in a broad frequency range that includes 3G, 4G LTE, and CDMA. Activit devices like cell phones and jammers is tracked and reported on.
- Alerts when rogue APs are on wired network or inside premise for quickest focus on most dangerous cases while blocking unwante and devices
- Protects against latest vulnerabilities automatically via DTU
- Detects over 120 security threats, including Karmetasploit, AirPWN, 802,11 fuzzing and WPS brute force attacks
- Compliance reports for PCI, HIPAA, FISMA, DoD 8 100,2, Basel II and others
- Scales to over 1000 sensors with a single server cluster in a data center
- Powerful local processing to enforce security policy even if connection is lost to server
- Automated forensic capture simplifies deep analysis

Remote Troubleshooting

- Solve toughest Wi-Fi problems using AHC to test end-to-end WLAN application connection
- Real-time analysis for both cellular and Wi-Fi spectrum via live connection to sensor eliminates costly and time consuming site visits
- Instant detection of unexpected Wi-Fi congestion due to tablets and BYOD
- Detection of unauthorized cellular devices and jammers interfering with cellular communications

Технические характеристики

Environmental / Compliance

Рабочие температуры	32° to 131°F (0° to 55°C)
Температура хранения	-40° to 158° F (-40° to 70°C)
Рабочая влажность	10 to 90% humidity (non-condensing) (DC power adapter excluded)
Сертификаты и соответствия	RoHS lead free CE (EN 300 328/ EN 301 489/ EN 301 893/ EN 60950) FCC Part 15B/C/E, ANSI/UL 60950-1-2011 IC, CSA 60950-1-07, Including AMD1 IEC 60950-1:2005+A1, EN 60950-1:2006+A1+A11 and / or A12

Electrical / Mechanical

Operating voltage	12VDC +/- 5%; 48V+/-10% (802.3af PoE)
Current consumption	Max. 850 mA (12VDC); 210mA (48V PoE)
Входная мощность	PoE 802.3af Compliant or +12VDC
Mounting	Seismic vibration PCB / connector resiliency Integrated mounting bracket on bottom cover of housing
Размеры	7,5 in x 7,5 in x 1,5 in / 19,1 cm x 19,1 cm x 3,8 cm (Model R1S1W1-E: 8 in x 8 in x 1,5 in / 20,3 cm x 20,3 cm x 3,8 cm)
Масса	Internal Antenna model: 15,8 oz / 448 gm External Antenna w/8 antennas attached: 29,5 oz / 836 gm (Model R1S1W1-E: 32 oz / 907 gm)
Светодиодные индикаторы статуса	Qty. 5: POWER, WLAN1, WLAN2, SA and LAN
LAN port	10/100/1000Mbps RJ45 with Built-In 802.3af POE
Последовательный порт	External Connector required, DB-9 male, RS-232 null modem

Wi-Fi

Стандартный	IEEE 802,11 a/b/g/n
Frequency band (ПРИМЕЧАНИЕ: operating frequencies controlled by country)	802.11n: dual band, same as 802.11a and 802.11b/g 802.11a: 5,15-5.25GHz, 5,25-5.35GHz, 5,47-5.725GHz, 5,725-5.875GHz 802.11b/g: 2,412-2.462GHz (US) 2,412-2.472GHz (Europe ETSI) 2,457-2.462GHz (Spain) 2,457-2.472GHz (France)
Скорость передачи данных	802.11an/gn 3SS: HT20 MCS 0-23 : 216,7 Mbps max HT40 MCS 0-23 : 450 Mbps max 802.11a : 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11g : 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b : 1, 2, 5,5, 11 Mbps
Antenna	Operating Frequency: 2,4-2,4835 & 5,15-5,35 & 5,725-5,85 GHz Internal model: Qty. 4 or 8 depending on model; gain 2,0 dBi typical External model: Qty. 4 or 8 depending on model; gain 2,0 dBi typical omnidirectional; connector: RP-TNC(M)

Информация для заказа

Модель	Описание
SENSOR4-R1S0-I	Сенсор AirMagnet, 4-е поколение один модуль 11n, внутренняя антенна.
SENSOR4-R1S1-I	Спектральный сенсор AirMagnet Spectrum, 4-е поколение, один модуль 11n, внутренняя антенна.
SENSOR4-R2S0-I	Сенсор AirMagnet, 4-е поколение, модули 2 x 11n, внутренняя антенна.
SENSOR4-R2S1-I	Спектральный сенсор AirMagnet Spectrum, 4-е поколение, модули 2 x 11n, внутреняя антенна.
SENSOR4-R1S0-E	Сенсор AirMagnet, 4-е поколение, один модуль 11n, внешняя антенна.
SENSOR4-R1S1-E	Спектральный сенсор AirMagnet Spectrum, 4-е поколение, один модуль 11n, внешняя антенна.
SENSOR4-R2S0-E	Сенсор AirMagnet, 4-е поколение, модули 2 x 11n, внешняя антенна.
SENSOR4-R2S1-E	Спектральный сенсор AirMagnet Spectrum, 4-е поколение, модули 2 x 11n, внешняя антенна.
SENSOR4-R1S1W1-E	AirMagnet Sensor, cellular spectrum, 4th Gen, 1 X 11n Radio, External Ant
AM/A5032	Инжектор питания для сенсоров AirMagnet
CABLEKIT-SENSOR4	Комплект консольных кабелей для сенсоров серии 4
Программа технической поддержки Gold Support (различные варианты)	Услуги по программе технической поддержки для каждой модели сенсора на 1 и 3 года