

# The NEURON by Consultix-DAStroix, is setting the benchmark for the "New DAS Public Safety "Antenna Monitoring Mandate."

*Why is the Consultix DAstronix Neuron a vital piece for "New DAS Public Safety "Antenna Monitoring Mandate?" Now being mandated in CA, Soon NY and South Florida*

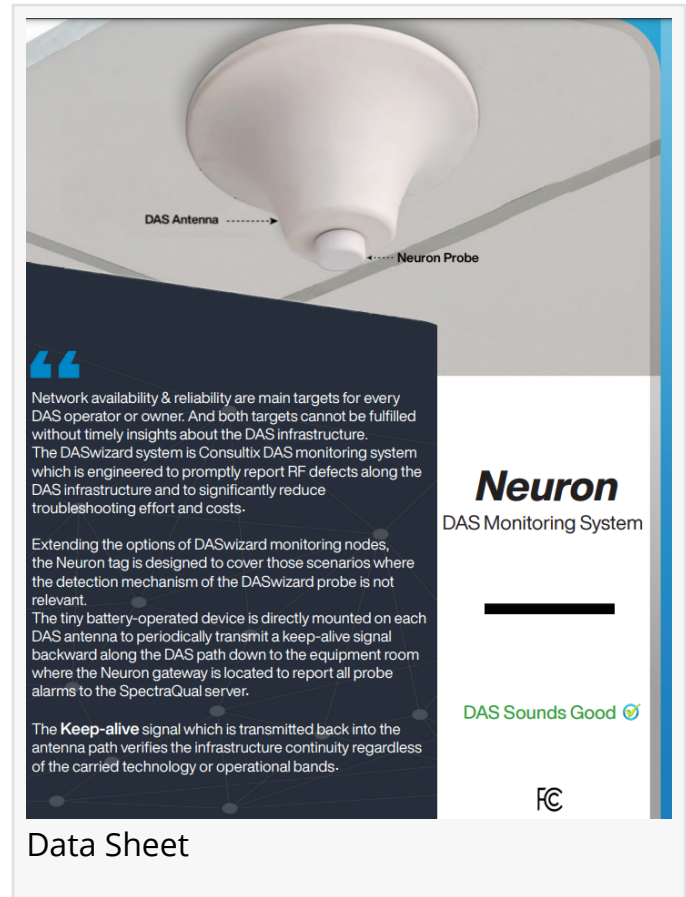
ORLANDO, FLORIDA, UNITED STATES, November 5, 2023 /EINPresswire.com/ -- Dastronix together with Consultix has designed the perfect solution for Passive DAS Antenna Monitoring, more AHJ's across all the US cities are starting to mandate Public Safety DAS antenna to be monitored 24/7 on premise or remotely with our SpectraQual cloud software with the capabilities of monitoring hundreds of sites statewide.

More AHJ's in US cities are mandating antenna monitoring of the passive infrastructure in ERRCS systems according to IFC 510

Accordingly, RF monitoring down to the antenna level is getting inevitable to ensure network availability that constantly achieves the required 99% coverage and to promptly identify which segment is defective. However, monitoring of passive devices such as couplers, splitters, cables and antennas is challenging because of their nature of being passive creatures.

With more than 10 years serving the global DAS market with distinguished instruments, Consultix engineered the Neuron with the finest compromise between usability, efficiency and affordability. Supporting Dry contact, SNMP interfacing, a generic node hardware and minimal installation requirements are among the key features that makes the Neuron remarkably unique and versatile.

Consultix Neuron was engineered as an economical DAS monitoring system that is simply reliable and quickly deployable.



The image shows a data sheet for the Neuron DAS Monitoring System. At the top, there is a diagram of a DAS antenna with a Neuron probe attached. Below the diagram, the text reads: "Network availability & reliability are main targets for every DAS operator or owner. And both targets cannot be fulfilled without timely insights about the DAS infrastructure. The DASwizard system is Consultix DAS monitoring system which is engineered to promptly report RF defects along the DAS infrastructure and to significantly reduce troubleshooting effort and costs." Below this, it says: "Extending the options of DASwizard monitoring nodes, the Neuron tag is designed to cover those scenarios where the detection mechanism of the DASwizard probe is not relevant. The tiny battery-operated device is directly mounted on each DAS antenna to periodically transmit a keep-alive signal backward along the DAS path down to the equipment room where the Neuron gateway is located to report all probe alarms to the SpectraQual server." At the bottom, it states: "The Keep-alive signal which is transmitted back into the antenna path verifies the infrastructure continuity regardless of the carried technology or operational bands." On the right side of the data sheet, the text "Neuron DAS Monitoring System" is displayed, followed by a horizontal line and the phrase "DAS Sounds Good" with a checkmark icon. The FCC logo is at the bottom right.

**Neuron**  
DAS Monitoring System

DAS Sounds Good ✓

FCC

Data Sheet

The system now comes with a variety of gateway options supporting different scenarios to seamlessly connect to your ERRCS (ask us for the right configuration that suits your site). Why is Neuron leading the Market?

Flexible band choices include VHF, 600, 700, 800 MHz in addition to cellular bands. Generic to all DAS vendors/types regardless it's an existing or new site.

Form C Dry-contact alarm (optional), AC & DC Gateway supply, Cloud or on-premises server (ask for integration with your NOC, NMS or SAAS)

Unrivalled 55 dB distance to the monitored antenna (55 dB cable/system loss), Indoor & Outdoor versions to monitor DAS antennas or Donor line.

No need to install proprietary DAS antennas, On-channel Interference Detection (Option), No need to replace existing tappers or couplers of your infrastructure. Gateway supports up to 100 devices. Variety of gateway-to-server connectivity (Ethernet, WIFI or cellular), Email and SMS notifications

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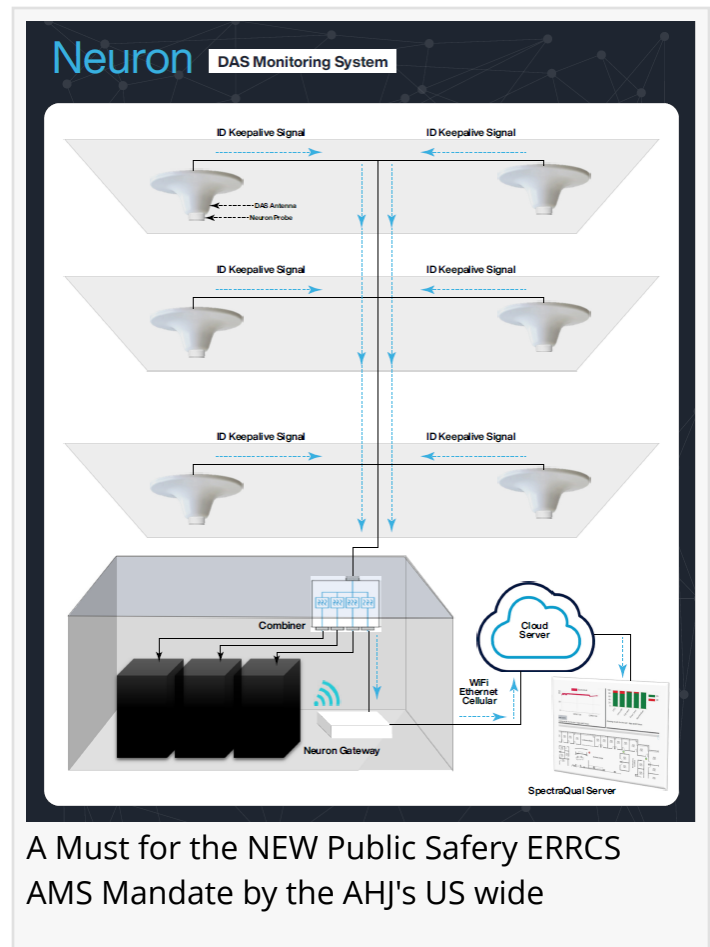
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*The Solution To all DAS AMS  
ERRCS Mandates*

FCC Certified, Cost-effective pricing structure. Enable the digital twin of your DAS to keep track of any changes or anomalies.

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SYSTEM SPECIFICATIONS	
<b>NEURON</b>	
Parameter/Feature	Value
Mode	DAS continuity check
Communication with the gateway	Keep-alive signal (coded with each Neuron ID)
Communication media	Keep-alive signal transports through the DAS infrastructure
Keep-alive Frequency Band	900 MHz ISM band (custom option choose from 287 to 1054 MHz)
Keep-alive signal Modulation	GFSK
Keep-alive Signal BW	50 KHz
Max. loss (DAS path from any antenna to the Neuron gateway)	55 dB
Reporting Interval	5 minutes to 1 day (Factory Settings)
Keep-alive Signal Duration (active period)	30 ms
Neuron battery Life	4 years @ 15-minute reporting interval
Battery Type	Built-in, Coin CR2032 (Replaceable)
Weight	35 grams (1.25 oz) including battery
Dimensions	Diameter; 45 mm (1.77"). Height; 20.3 mm (0.8")
Mounting	Adhesive (screw-mount optional)
Settings	Neuron ID, site and floor location
Operating Temperature	-10 to 50 °C (14 to 122 °F)
Operating humidity	Up to 95%
Certifications	FCC (part 15.109 and 15.107) and EN55022/CISPR 22 EMI
Enclosure material	ABS Plastic. White color (custom color available)
<b>NEURON GATEWAY</b>	
Parameter/Feature	Value
Capacity	>100 Neurons / gateway
Connectivity to server	Ethernet (Optional WIFI and Cellular)
Back-up mechanism	Store & forward
Security method	SSL
Alarming Method	Direct access (hotspot GUI), SpectraQual server, SNMP interface (optional) or Dry-contact (optional)
Power Supply	DC input (5 VDC; connector 5.5 × 2.1 mm) and AC/DC adapter included (100-240 VAC, 50-60 Hz). Optional 24/48 VDC input.

specification

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