

DAS Antenna

Neuron Probe



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.

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 transmits 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.

The **Keep-alive** signal which is transmitted back into the antenna path verifies the infrastructure continuity regardless of the carried technology or operational bands.



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## ***DASwizard Neuron***

Remote DAS  
Continuity  
Checker

# SYSTEM SPECIFICATIONS

## NEURON

<i>Parameter/Feature</i>	<i>Value</i>
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 signal frequency	900 MHz Custom options (choose from 287 to 1054 MHz)
Keep-alive signal Modulation	GFSK
Keep-alive signal BW	100 KHz
Keep-alive signal Power	5 dBm
Reporting Interval	1 to 60 minutes (Factory settings)
Keep-alive signal duration (active period)	10 ms
Neuron battery Life	4 years @ -15minute reporting interval
Battery Type	Built-in, non-rechargeable Coin CR2032- (Replaceable)
Weight	35 grams (1.25 oz) including battery
Dimensions	Diameter; 42 mm (1.56"). Hight; 16 mm (0.63")
Mounting	Adhesive
Settings	Neuron ID, site and floor location
Operating temperature	10- to 50 °C (14 to 122 °F)
Operating humidity	Up to %95
Enclosure material	ABS Plastic. White color (custom color available)

## NEURON GATEWAY

<i>Parameter/Feature</i>	<i>Value</i>
Capacity	1000 Neuron / gateway
Connectivity to server	Ethernet (Optional WIFI and Cellular)
Back-up mechanism	Store & forward
Security method	SSL

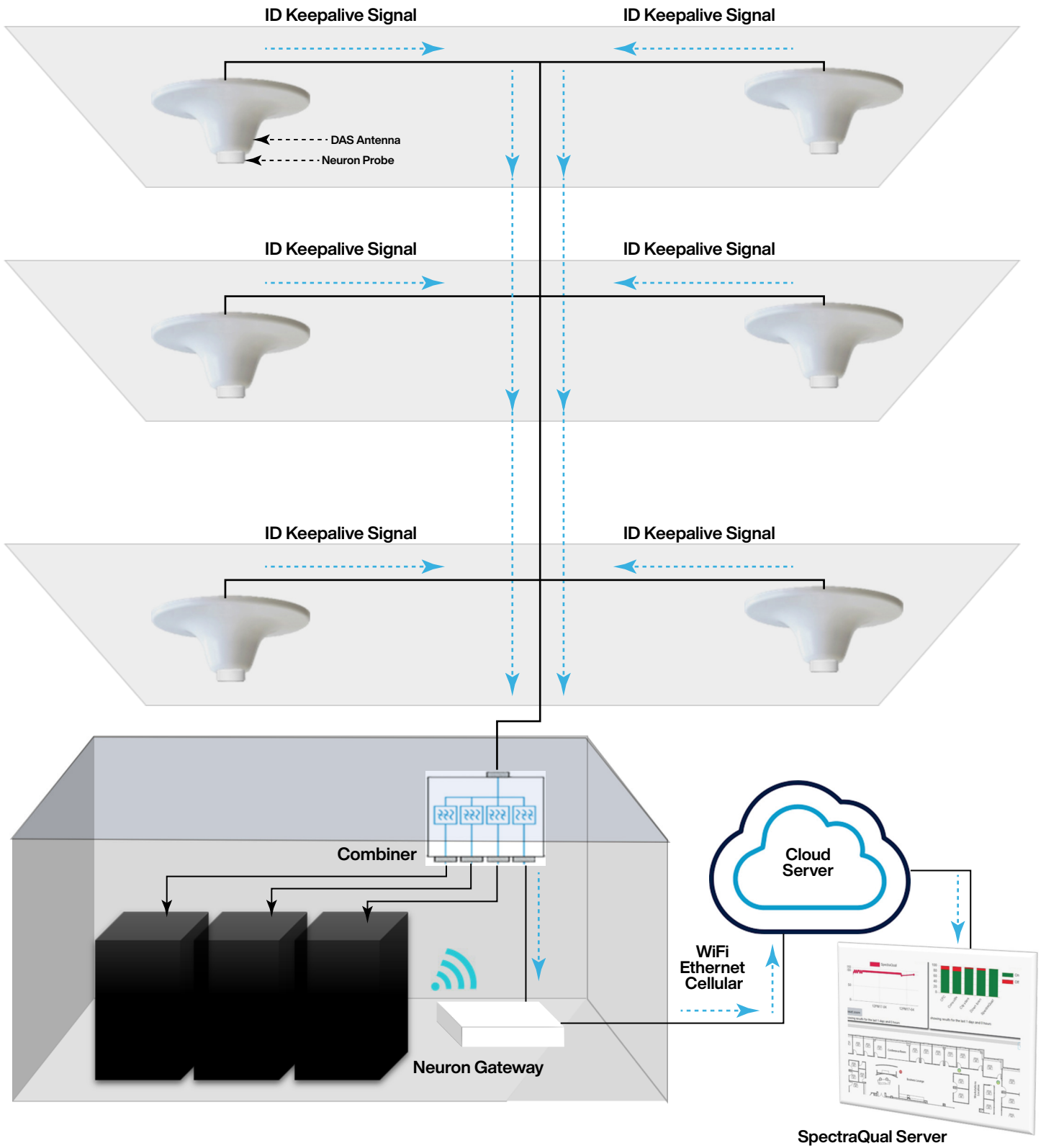
# SYSTEM SPECIFICATIONS

## SPECTRAQUAL SERVER

<i>Parameter/Feature</i>	<i>Value</i>
User access	Web-based
Setup	On-Premises or Cloud
Security	SSL to gateway, token for user authentication and access levels
Widgets	Standard or customizable
Data Representation	Tabular, time graph, bar chart, pie chart and maps
Capacity	As per ordering information below
Notifications	Dashboard, visual floor map, e-mail and SMS
OS	Windows Server
Database	MySQL
Integration with existing OSS	Custom option

## ORDERING INFORMATION

<i>Parameter/Feature</i>	<i>Value</i>
RF Tag for DAS continuity checks, built-in battery.	<b>DASWizard-Neuron</b>
Neuron Gateway; alarm receiver with standard uplink to server, incl. AC/DC adapter	<b>DASWizard-Neuron-GW</b>
SpectraQual server (on-premises): SW license supporting up to 1000 probes	<b>SpectraQual</b>
SpectraQual server (on-premises): SW license supporting unlimited probe number	<b>SpectraQual-Mega</b>
SpectraQual server (Cloud): SW instance supporting up to 1000 probes	<b>SpectraQual-C</b>
SpectraQual server (Cloud): SW instance supporting unlimited probe number	<b>SpectraQual-Mega/C</b>



### CONTACT US

📍 133, St. 17, Mohammed Farid Axis, 11835 New Cairo Egypt.

☎ +2 02 25647370

✉ info@consultixwireless.com

🌐 www.consultixwireless.com



877-711-1757  
sales@dastronixusa.com  
www.dastronixusa.com