

DAS Antenna

Neuron Probe

Actual Size



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 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.

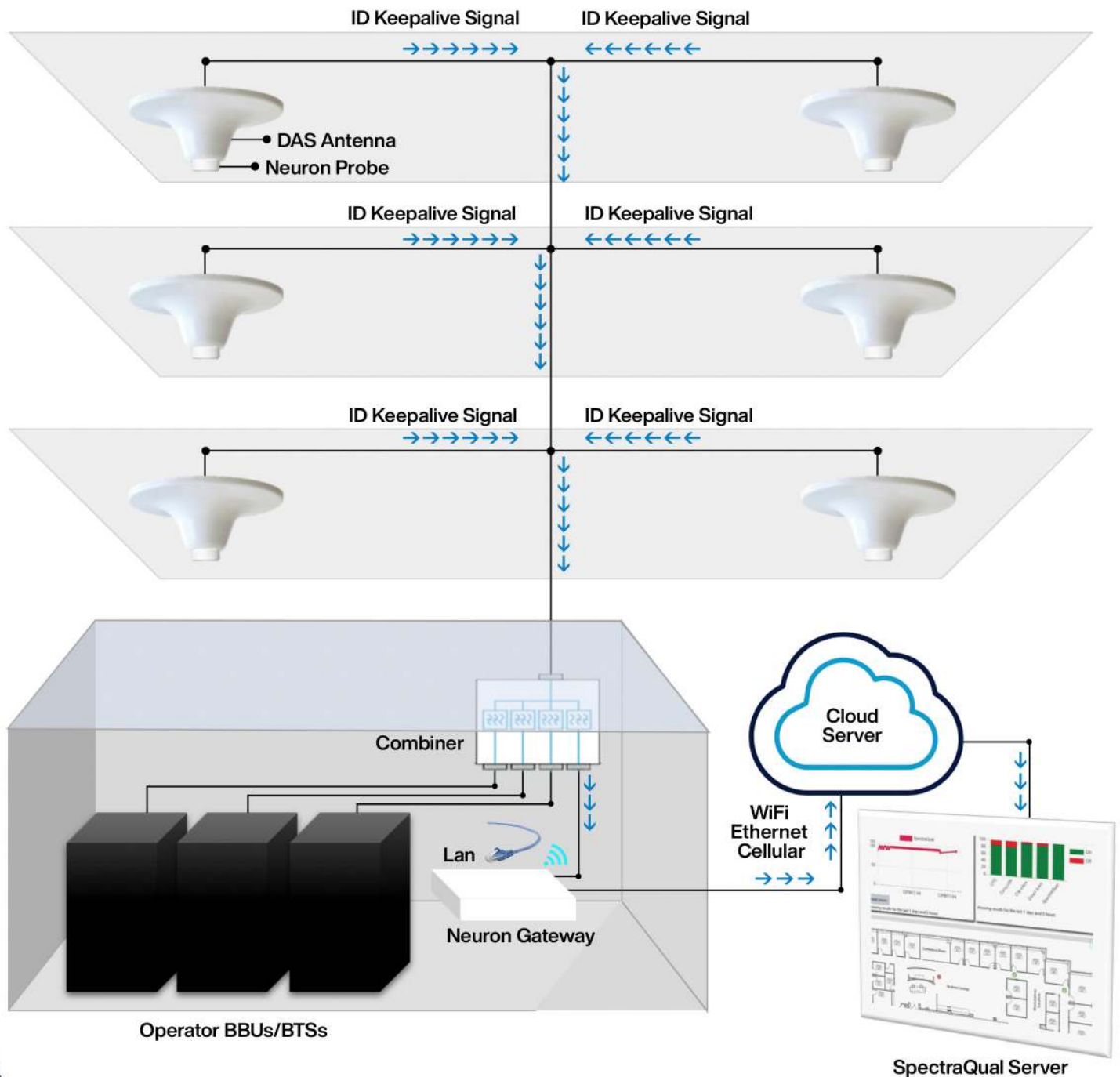
The **Keep-alive** signal which is transmitted over the unlicensed band (900-915 MHz) verifies the infrastructure continuity regardless of the carried technology or operational bands.



DASwizard Neuron

Remote DAS Continuity Checker

Neuron DAS Monitoring System



SYSTEM SPECIFICATIONS

NEURON

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 signal frequency	900 to 915 MHz (Factory settings)
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 @ 15-minute reporting interval
Battery Type	Built-in, non-rechargeable Coin CR-2032 (Replaceable)
Weight	35 grams (1.25 oz) including battery
Dimensions	Diameter; 32 mm (1.26"). Hight; 17.5 mm (0.7")
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

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

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.	DASWizard-Neuron
Neuron Gateway; alarm receiver with standard uplink to server, incl.AC/DC adapter	DASWizard-Neuron-GW
SpectraQual server (on-premises): SW license supporting up to 1000 probes	SpectraQual
SpectraQual server (on-premises): SW license supporting unlimited probe number	SpectraQual-Mega
SpectraQual server (Cloud): SW instance supporting up to 1000 probes	SpectraQual-C
SpectraQual server (Cloud): SW instance supporting unlimited probe number	SpectraQual-Mega/C

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