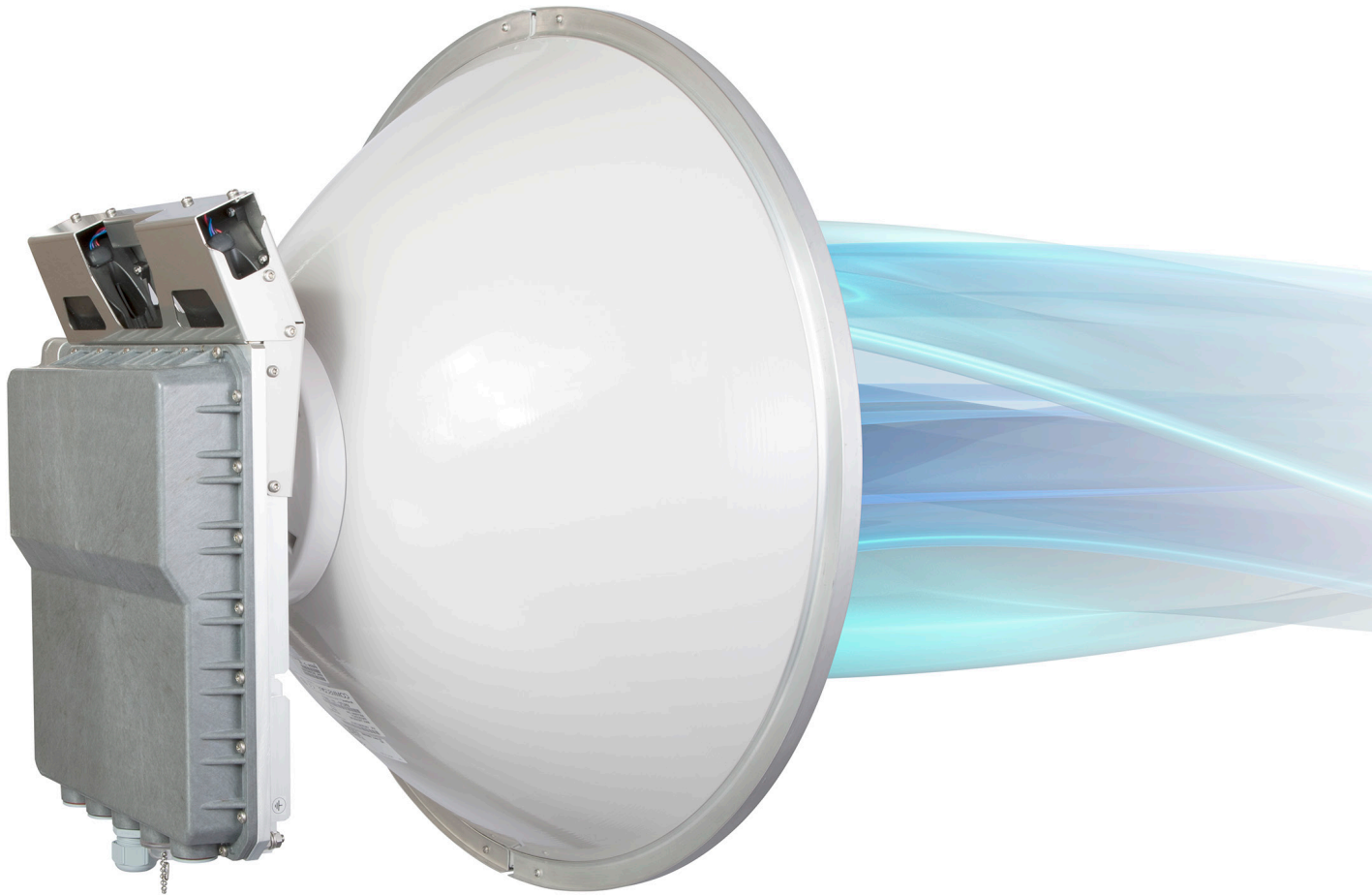


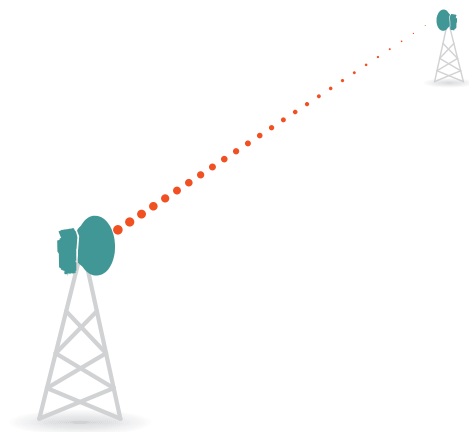


# Integra-WS

PRODUCT HIGHLIGHTS



Integra-WS is one of SAF Tehnika's most innovative radio systems designed specifically for wideband applications. Integra-WS supports channel bandwidths of up to 112 MHz and modulations up to 1024QAM for network capacity upgrades of up to 883 Mbps per full-duplex radio link. Integra-WS provides the best industrial-grade all-outdoor experience. This All-Outdoor radio contains a radio, modem and PoE splitter with a surge arrestor all in one box, which is perfect for shelter-free installation. Carefully selected materials for best corrosion resistance and simplified installation makes it a top choice for various network backbone applications. High performance predistortion algorithm introduced in Integra-WS enables high Tx power, which is critical for wide-bandwidth and high modulation radio links. Integra-WS is one of the most reliable and durable radios on the market, and comes with a stunning 5 year manufacturer's warranty!



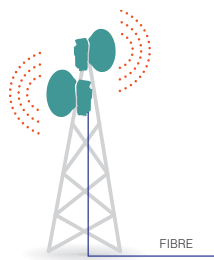
## Long Distance Links

High Tx power and an advanced pre-distortion algorithm allow for long distance links. Superb for extending a Fiber Optics network over high capacity radio. Integra WS can reach up to 122km with a 99.995% availability rate. Distance varies due to environment and capacity settings.



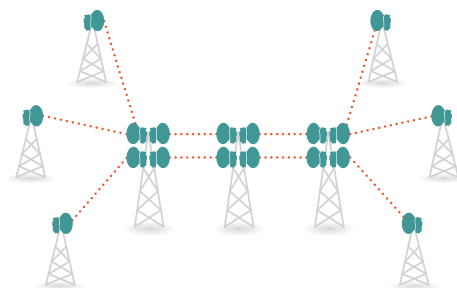
## The Highest Reliability

High reliability innovative materials for the best corrosion resistance, EMC isolation and a great heat dissipation system result in the radio supporting a wide temperature range. The best possible lightning protection - no risk of damaging the data transmission equipment over data cable.



## All-outdoor

All-outdoor system consists of a radio, modem and PoE splitter with a surge arrester in a single HW design which can be directly mounted to the antenna, allowing for shelter-free installations.



## 1 Gbps backbone link

Long distance 1Gbps backbone link with two radio links in 80MHz at 256QAM with a system gain as high as 87 dBm.

## General Specification

Capacity	883 Mbps at 112MHz 1024QAM 643 Mbps at 80 MHz 1024QAM
Frequency bands	6GHz, 11GHz, 15GHz, 17GHz UL, 18GHz, 23GHz, 24GHz UL, 25GHz, 26GHz, 38GHz, 42GHz and more

## Preliminary RSL Threshold (dBm) and Link Capacity (Mbps)

Modulation	80MHz		112MHz		Tx (6GHz), dBm
	RSL	Mbps	RSL	Mbps	
4QAM	-80,5	128	-79,0	176	+33
16QAM	-74,0	257	-72,0	359	+32
32QAM	-70,5	321	-69,5	441	+32
64QAM	-68,0	385	-66,5	530	+31
128QAM	-64,5	450	-63,5	618	+31
256QAM	-62,0	514	-60,5	707	+30
512QAM	-58,5	578	-57,0	795	+30
1024QAM	-55,0	643	-53,5	883	+28



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