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Xaver Long Range – XLR 80

Transmission Specifications

Rev	Name	Date	Change Description
1.0	R. Daisy	June 23, 2021	

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1 General


This document provides the transmission specifications of the Xaver™ Long Range XLR 80 system.

2 Transmission Specifications

The following table summarizes the XLR 80 transmission specifications:

<i>Parameter</i>	<i>Value</i>	<i>Units</i>
Number of Transmitters	1	
Polarization	Vertical	
Pulse Width	0.5	nsec
Pulse Repetition Frequency (PRF)	1	MHz
Average Transmission Power	-30	dBm
Transmission Band F_{min}	3	GHz
Transmission Band F_{max}	5	GHz
Bandwidth	2	GHz
Antenna Max Gain	28	dBi
Antenna Beam Width	6	degrees
Antenna Aperture	0.64	m ²
Maximum Total EIRP	-2	dBm
Typical EIRP Density	-27	dBm/MHz

Table 1 Xaver Long Range XLR 80 Transmission specifications

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