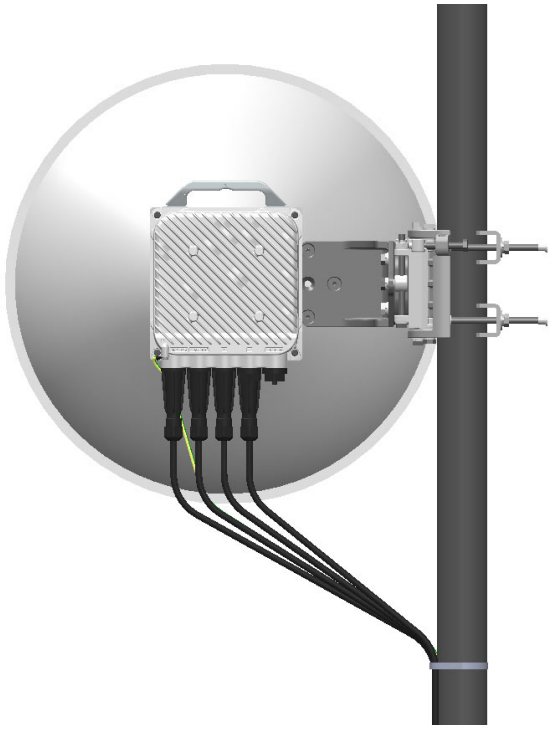
GGS-000553-04E
January 2022

iPASOLINK EX
Advanced

RADIO FREQUENCY PLANNING



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GGS-000553-04E

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GGS-000553-04E

Printed in Japan

iPASOLINK EX Advanced

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1. OVERVIEW

Following show the appearance of iPASOLINK EX Advanced (hereinafter iPASOLINK EX/A) the frequency ranges (RF frequency bands).

iPASOLINK EX/A	Applicable Frequency Bands (GHz)	
	TRP-80G10GB-1A	71 to 76 GHz 81 to 86 GHz

iPASOLINK EX/A Dual	Applicable Frequency Bands (GHz)	
	TRP-80G20GB-1A	71 to 76 GHz 81 to 86 GHz

CAUTION:

iPASOLINK EX/A that has been used outside should NOT be disassembled without following the appropriate procedures. Whenever the outer is removed, replace the Silica Gel packs with new ones, and also the air leakage test should be carried out using the air leakage tester that is manufactured and sold (optional) by NEC.

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2. RADIO FREQUENCY PLANNING

2.1 Sub-Band and TX-RX Frequency Spacing

SUB-Band and TX High/Low depends on the equipment. Please check the equipment label.

2.1.1 71 to 76 GHz, 81 to 86 GHz Band

Sub-Band	Frequency Range		TX High/Low
	TX Radio Point	RX Radio Point	
A	71125.00 to 73625.00 MHz	81125.00 to 83625.00 MHz	Lower Band
B	73375.00 to 75875.00 MHz	83375.00 to 85875.00 MHz	
C	71125.00 to 75875.00 MHz	81125.00 to 85875.00 MHz	
A	81125.00 to 83625.00 MHz	71125.00 to 73625.00 MHz	Higher Band
B	83375.00 to 85875.00 MHz	73375.00 to 75875.00 MHz	
C	81125.00 to 85875.00 MHz	71125.00 to 75875.00 MHz	

NOTE: *The range of setting frequencies differ depending on the channel spacing to apply. Available ranges (FT) are obtained by the following:*

- $(f1 + CS \times 1/2) < FT < (fn - CS \times 1/2)$

where:

$f1$ = Start Frequency = 71125.00
fn = Stop Frequency = 73625.00

CS: Channel Spacing

CS to Apply	Available Ranges (Narrower than Occupied Bandwidth)	
62.5 MHz	$(f1 + 62.5 \times 1/2) < FT < (fn - 62.5 \times 1/2)$	→ 71156.25 to 73593.75 MHz
125.0 MHz	$(f1 + 125.0 \times 1/2) < FT < (fn - 125.0 \times 1/2)$	→ 71187.50 to 73562.50 MHz
250.0 MHz	$(f1 + 250.0 \times 1/2) < FT < (fn - 250.0 \times 1/2)$	→ 71250.00 to 73500.00 MHz
500.0 MHz	$(f1 + 500.0 \times 1/2) < FT < (fn - 500.0 \times 1/2)$	→ 71375.50 to 73375.50 MHz
750.0 MHz	$(f1 + 750.0 \times 1/2) < FT < (fn - 750.0 \times 1/2)$	→ 71500.00 to 73250.00 MHz
1000.0 MHz	$(f1 + 1000.0 \times 1/2) < FT < (fn - 1000.0 \times 1/2)$	→ 71625.00 to 73125.00 MHz
1500.0 MHz	$(f1 + 1500.0 \times 1/2) < FT < (fn - 1500.0 \times 1/2)$	→ 71875.00 to 72875.00 MHz
2000.0 MHz	$(f1 + 2000.0 \times 1/2) < FT < (fn - 2000.0 \times 1/2)$	→ 72125.00 to 72625.00 MHz

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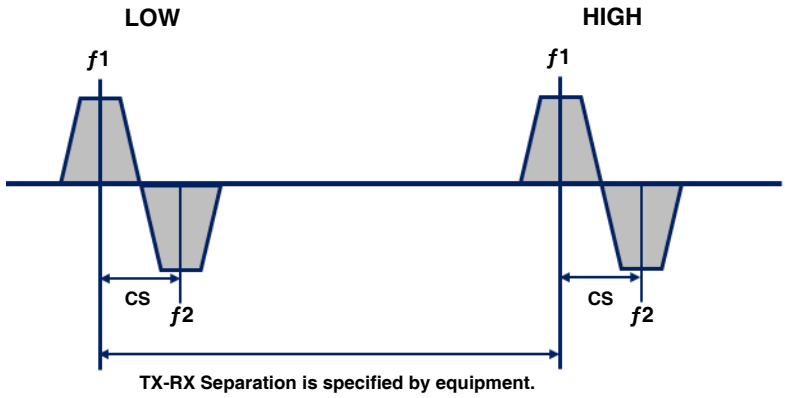
3. FD SYSTEM CHANNEL ALLOCATION

This section provides the frequency allocation rules that are applied to the Frequency Diversity (FD) System. The information in this section is not applicable for the single channel system EX/A (TRP-80G10GB-1A).

3.1 Adjacent Channel Alternate-Polarization

■ Channel Spacing

For the Alternate-Polarization, the minimum TX-TX Separation Frequency should be higher.



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