

ISO 21460:2007-10 (E)

Space data and information transfer systems — Proximity-1 space link protocol — Physical layer

CONTENTS

<u>Section</u>	<u>Page</u>
1 INTRODUCTION	1-1
1.1 PURPOSE.....	1-1
1.2 SCOPE.....	1-1
1.3 APPLICABILITY.....	1-1
1.4 RATIONALE.....	1-2
1.5 CONVENTIONS AND DEFINITIONS.....	1-2
1.6 REFERENCES.....	1-5
2 OVERVIEW	2-1
3 GENERAL REQUIREMENTS FOR THE PHYSICAL LAYER	3-1
3.1 APPLICABILITY.....	3-1
3.2 FUNCTIONAL REQUIREMENTS.....	3-1
3.3 IDLE DATA.....	3-4
3.4 CONTROLLED COMMUNICATIONS CHANNEL PROPERTIES.....	3-5
3.5 PERFORMANCE REQUIREMENTS.....	3-10
ANNEX A DIRECTIVES AFFECTING THE PROXIMITY-1 PHYSICAL LAYER (Normative)	A-1

Figure

1-1 Bit Numbering Convention.....	1-5
2-1 Proximity-1 Layered Protocol Model.....	2-1
3-1 Oscillator Phase Noise.....	3-11
3-2 Discrete Lines Template for the Transmitter (Normalized Power in dBc vs. Normalized Frequency: $(f-f_c)/A$).....	3-12

Table

3-1 Categories of Radio Equipment Contained on Proximity-1 Link Elements.....	3-1
3-2 Proximity-1 Channel Assignments 0 through 7 (Frequencies in MHz).....	3-8