

 <p>IFSI CNR</p>	<p>SPIRE DPU Communication Matrix</p>	<p>Ref.:SPIRE-IFS-DOC-001032 Issue:Issue 1.0 Date: 23/11/01</p>
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SPIRE

DPU Communication Matrix

Document Ref: SPIRE-IFS-DOC-001032

Issue 1.0

Prepared by: Renato Orfei

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IFSI
CNR

**SPIRE DPU
Communication
Matrix**

Ref.: SPIRE-IFS-DOC-

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Date: 23/11/01

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Document Status Sheet

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1 Introduction

1.1 Purpose of the document

The Istituto di Fisica per lo Spazio Interplanetario (IFSI) of the Italian Consiglio Nazionale delle Ricerche (CNR) is responsible for the design and manufacturing of the three Digital Processing Units/Instrument Control Unit for the three instruments to be flown on board of the ESA satellite Herschel: HIFI, PACS and SPIRE.

This document lists the various people responsible for the various functions within IFSI and Carlo Gavazzi Space with respect to the design, manufacturing and testing of the SPIRE DPU.

2 DOCUMENTS

2.1 APPLICABLE DOCUMENTS

2.2

AD	Name
01	Herschel/Planck Instrument Interface Document, part A
02	Herschel/Planck Instrument Interface Document, part B-Instrument SPIRE
05	Herschel SPIRE DPU Subsystem Specification Document
06	Herschel DPU/ICU Subsystem Development Plan
07	DPU/ICU P.A.Plan
08	DPU/ICU OBS PA Plan
09	SPIRE OBS URD
10	SPIRE Communication Matrix

2.3 Reference documents

2.4

RD	Name

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3 DPU Communication Matrix

IFSI is a small Institute involved in space research since the beginning of sixties. In the research field various functions in a project are fulfilled by the same person mainly because staff and budget limitations.

It is to be pointed out that the design and manufacturing of the DPU boards and the on board PROM software is contracted to Carlo Gavazzi Space.

IFSI responsibilities are:

- design and manufacturing of the mechanical box;
- procurement and mounting/cabling of the box connectors;
- assembling and functional/performance testing;
- environmental and EMC/EMI testing;
- On Board Software design, implementation and testing;
- On Board Software maintenance.

The communication layer above IFSI in the SPIRE project is shown in the SPIRE Communication Matrix (AD-10).

3.1 IFSI STAFF

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Note: The OBS PA function will be performed by the SPIRE Project

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