

 IFSI CNR	SPIRE DPU Configuration Status List	Ref.: SPIRE-IFS-PRJ-001033 Issue: Issue 1.2 Date: 11/02/2002
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SPIRE

DPU Configuration Status List

Document Ref: SPIRE-IFS-PRJ-001033

Issue 1.2

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Document Status Sheet

Issue	Revision	Date	Reason for Change
Issue 1		23/11/2001	
Issue 1	1	11/02/2002	Updating for IBDR
	2	11/02/2002	More documents added

Document Change Record

Document Title: SPIRE DPU Configuration Status List	
Document Reference Number: SPIRE-IFS-DOC-	
Document Issue/Revision Number: Issue 1.2	
Section	Reason For Change
All	Issue 1.0
ISSUE 1.1	
	Added CGS Test Procedures

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Issue 1.2	
	Added Derating and Worst case Analysis
	Added DPU/ICU Spacecraft Interface Acceptance Test Plan

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Acronyms

AD	Architectural Design
ATP	Acceptance Test Plan
AVM	Avionic Model
BSW	Basic SW
CGS	Carlo Gavazzi Space
CIDL	Configuration Item Data List
CSL	Configuration Status List
CNR	Consiglio Nazionale delle Ricerche
CPP	Coordinated Parts Procurement
CPP	Coordinated Parts Procurement Board
CPU	Control Processing Unit
CDMS	Central Data Management System
CDMU	Central Data Management Unit
CQM	Cryogenic Qualification Model
DCU	Detector Control Unit
DDD	Detailed Design Document
DPU	Digital Processing Unit
EEPROM	Electrically Erasable Programmable Read Only Memory
EMC	Electro Magnetic Compatibility
EMI	Electro Magnetic Interference

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ESA	European Space Agency
FIRST	Far InfraRed and Submillimeter Telescope
HK	HouseKeeping
HW	HardWare
IBDR	Instrument Baseline Design Review
ICD	Interface Control Document
ICDR	Instrument Critical Design Review
ICU	Instrument Control Unit
IHDR	Instrument Hardware Design Review
IFSI	Istituto di Fisica dello Spazio Interplanetario
ISVR	Instrument Science Verification Review
MCU	Mechanism Control Unit
NA	Not Applicable
OBS	On-Board Software
PA	Product Assurance
PDU	Power Distribution Unit
PROM	Programmable Read Only Memory
S/C	SpaceCraft
SCC	SpaceCraft Components
SCU	S..... Control Unit
SEU	Single Event Upset
SPIRE	Spectral and Photometric Imaging Receiver
S/S	SubSystem

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SVM	Service Module
SW	Software
TBC	To Be Confirmed
TBD	To Be Defined
TBW	To Be Written
TV	Thermal Vacuum
WBS	Work Breakdown Structure

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1 INTRODUCTION

1.1 SCOPE

The purpose of this document is to define a list of documents that describe the DPU and their issue status, in order to establish a configuration control of the design (as design status) and a configuration of the actual manufactured subsystem (as built status).

It has to be noted that in some cases the document is common to the three Herschel satellite instruments (i.e. PACS, HIFI and SPIRE) and in these cases the document is DPU/ICU.... instead

2 DOCUMENTS

2.1 APPLICABLE DOCUMENTS

AD	Name
01	Herschel/Planck Instrument Interface Document, part A
02	Herschel/Planck Instrument Interface Document, part B-Instrument SPIRE
04	SPIRE Instrument Specification
07	DPU/ICU P.A.Plan
10	DPU/ICU OBS PA Plan

2.2 Reference documents

Reference Document	Name

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3 List of Hardware documents

SPIRE DPU Subsystem Specification Document	SPIRE-IFS-PRJ-000462 Issue1.2
DPU/ICU Development Plan	IFSI/DPU/PL/2000-001 Issue 1.4
SPIRE DPU AIV and Test Plan	SPIRE-IFS-DOC-001028 Issue 1.1
DPU/ICU P.A. Plan	IFSI/ICU/PL/1999-001 Issue 1
DPU/ICU ESD Control Procedure	IFSI/ICU/PR/2001-001 Issue 1.1
DPU/ICU Derating and Worst Case Analysis	CNR.IFSI.2001TR06 Issue 1
SPIRE DPU Declared Components, Material and Processes List	SPIRE-IFS-DOC-001031 Issue 1.1
SPIRE DPU Configuration Status List	SPIRE-IFS-DOC-001033 Issue 1.2
SPIRE DPU ICD	SPIRE-IFS-PRJ-000650 Issue 1.1
CPU BOARD SPECIFICATION	DPU-SP-CGS-001 Issue 1
I/F BOARD SPECIFICATION	DPU-SP-CGS-002 Issue 1
MOTHER BOARD SPECIFICATION	DPU-SP-CGS-005 Issue 1
DC/DC BOARD SPECIFICATION	DPU-SP-CGS-004 Issue 1
DPU/ICU Spacecraft Interface Acceptance Test Plan	CNR.IFSI.2001TR04 Draft 0.1
CPU BOARD Test Procedure	DPU-PR-CGS-001 Issue 2
I/F BOARD Test Procedure	DPU-PR-CGS-002 Issue 1
DC/DC BOARD Test Procedure	DPU-PR-CGS-003 Issue 1

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MOTHER BOARD Test Procedure	DPU-SP-CGS-004 Issue 1
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4 List of Management Documents

SPIRE DPU Communication Matrix	SPIRE-IFS-DOC-001032 Issue 1
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5 List of Software documents

DPU-BSW SOFTWARE REQUIREMENTS DOCUMENT	DPU-SQ-CGS-001 Issue 2
DPU-BSW SOFTWARE A.D. DOCUMENT	DPU-AD-CGS-001 Issue 1
DPU/ICU OBS Product Assurance Plan	IFSI/OBS/PL/2000-001 Issue 1.0
DPU/ICU OBS Logical Model	
SPIRE DPU OBS User Requirements Document	SPIRE-IFS-PRJ-000444 Issue1.0
SPIRE OBS SSD	SPIRE-IFS-PRJ-001032 Draft 0.1