

## MCU / CONTROL SYSTEM documentation list

### 1 MCU DOCUMENTATION

#### *General aspects*

Document name	reference	issue	date	contents	file
MCU design description	LAM/ELE/SPI/000619	3.0	20/09/01	General description of MCU functions and characteristics	<a href="#">MCU Design_description_30.doc</a>
MCU Power Budget	LAM/ELE/SPI/011013	1.0	11/10/01	detailed power consumption of electronics parts	<a href="#">MCU Power Budget_1_0.xls</a>
MCU FMECA	LAM/ELE/SPI/010920	draft1	20/09/01	Analysis of failures on MCU parts	<a href="#">MCU FMECA draft1.doc</a>

#### *Interface control*

Document name	reference	issue	date	contents	file
MCU Flight Model Interconnection List	LAM/ELE/FTS/NTT/010314	1.0	09.2001	MCU connectors definition and pin out/Back panel pin out	<a href="#">MCU Electrical connexions ICD 1_012.doc</a>
MCU Mechanical ICD				<b>To be done</b>	
MCU Grounding Scheme	LAM/ELE/SPI/011012	1.0	11/10/01	The grounding connections inside MCU	<a href="#">MCU Grounding_1.doc</a>
MCU/ DPU Command List ICD	LAM/ELE/SPI/011011	1.0	20/09/01	List of commands to be sent to MCU by DPU to control SMEC and BSM axis	<a href="#">MCUCommandICD10.doc</a>

18/10/01

### Electronics Drawings and Layout

Document name	reference	issue	date	contents	file
List of electronics drawings	/	/	09/10/01	List of electronics ORCAD layouts of MAC, SMEC,BSM, Preamp boards	<a href="#">List of electronics drawings_01.doc</a>
Drawings	see List of electronics drawings				<a href="#">mac_QM.doc</a> <a href="#">SMEC_SCHEMAS.doc</a> <a href="#">BSM_SCHEMAS.doc</a> <a href="#">Preampli_Codeur_Incremental_01.doc</a> <a href="#">Moire_Encoder_01.doc</a>

### Component/Process Lists

Document name	reference	issue	date	contents	file
EEE parts List	LAM/ELE/SPI/QUA/000201	8.0	26/09/01	List of electronics components for flight	<a href="#">EEE_parts_list_08_0.doc</a>
QM EEE parts list	LAM/ELE/FTS/QUA/010201	1.1	01/02/01	List of electronics parts for QM	<a href="#">QM_EEE_list_01_0.doc</a>
Declared Material List	LAM/ELE/FTS/011008.01	0.0	08/10/01	Materials used for electronics PCB and bonding	<a href="#">DECLARED_MATERIAL_LIST-01.doc</a>
Declared Process list	LAM/ELE/FTS/011009.01	0.0	09/10/01	Processes for electronics	<a href="#">DECLARED_PROCESS_LIST-01.doc</a>

### Management

Document name	reference	issue	date	contents	file
MCU Development plan				See SMEC Dev plan	
MCU AIV Plan				See SMEC Dev Plan	
PA Plan				See project PA plan	

## 2 SMEC CONTROL SYSTEM DOCUMENTATION

Document name	reference	issue	date	contents	file
SMEC Control System and GSFC prototype test report	LAM/ELE/SPI/010110	1.0	17/04/00	Performances of the closed loop control on SMECm prototype	<a href="#">SMEC_Mechanism_Control_System.doc</a>

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### 3 ELECTROMECHANICAL COMPONENTS DOCUMENTATION

Document name	reference	issue	date	contents	file
<b>SMECm actuator Technical Specifications</b>	LAM/ELE/SPI/011007	1.0	09/10/2001	Specifications for the actuator based on existing motor and simulations	<a href="#">SMECm Motor.doc</a>