HYPERION TECHNOLOGIES

CP400.85 Processing Platform

DESCRIPTION

The CP400.85 processing platform is a high computing power, low energy consumption, general purpose processing platform. The Linux-based operating system allows users to run various algorithms as distinct, uploadable applications, enabling almost limitless flexibility. These can be run parallel to each other, in which case the OS takes care of the scheduling.

The platform consists of modified COTS components to withstand up to 25 krad of radiation. The fast boot time ensure maximum system up time for computing tasks.

Using the optional storage module, users can store up to 7.5 Gb of data in reliable, radiation tolerant storage, and can optionally store over 64 GB of bulk data on two SD-cards.

Depending on the carrier board (supplied separately), the module can be used as a powerful payload processor, or as a general purpose on-board computer.

HIGHLIGHTS

- Processor: ARMv7-A
- Clock frequency: 500 MHz
- Ram: 512 MB
- Storage: 512 MB of flash memory
- Linux-based operating system, with additions for improved radiation tolerance. Other operating systems on request.
- Plug-and-play ready design
- Primary components radiation tolerant to over 25 krad (Si) (TBC)
- Optional: Companion board with up to 7.5 Gb of radiation tolerant storage and over 64 GB of bulk data storage

- Low mass: 7 g
- Low power: < 1000 mW peak
- Module dimensions: 20 x 50 x 10 mm

HYPERION TECHNOLOGIES

SPECIFICATIONS

Performance		
Processing power	~750	DMIPS
Clock frequency	500	MHz
Main memory	512	MB
Main storage	512	MB

Dimensions		
Outer dimensions	50 x 20 x 10	mm
Mass	7	g

Environmental		
Operating temperature	- 45 to + 85	°C

Electrical specifications	Min.	Typ.	Max.	
Supply voltage	3.1	3.3	5	V

Power consumption	Min.	Typ.	Max.	
Idle	<TBD>	<TBD>	<TBD>	mW
Nominal[2]	<TBD>	550	<TBD>	mW
Peak	<TBD>	-	1000[3]	mW

[1] To be confirmed

[2] When running a Fibonacci algorithm

[3] Theoretical limit

MECHANICAL CHARACTERISTICS

CP400.85 outer dimensions [mm]

For pricing, delivery, configuration and ordering information please contact
Hyperion Technologies B.V. at *info@hyperiontechnologies.nl*, or visit
Hyperion Technologies' website at *www.hyperiontechnologies.nl*.

HYPERION TECHNOLOGIES