Command and Data Handling System (CDH) - 110

The CDH-110 consist of two main parts: OBC-110 and ACC-110. The OBC-110 is responsible for scheduling all tasks and coordinating TMTC functions of the bus whereas the ACC-110 which is integrated in the same housing runs the attitude algorithm and connects to all ADCS components.

COMMAND AND DATA HANDLING SYSTEM (CDH) - 110

Characteristics	Description
Size	176 x 94 x 69 mm^3
Weight	815 g
Power (digital electronics) (magnetic coils)	5V DC Bus voltage or 5V DC
Storage Temperature	-30°C to +50°C
Operating Temperature	-20°C to +40°C
Design Life	5 years LEO
Space Heritage	TRL9
Radiation Test (Co60)	20 krad

Interfaces & Capabilities	Description
OBC-110	
Data Interfaces	8x RS422 + 2x SPI/RS422
	4x TMTC, 1x PCU, 1x payload, 1x GPS, 1x ACC, 1x OBC-HP, 1x EGSE interface
Time Synchronisation	Dedicated pins for subsystems
Process Power	90 MIPS
ACC-110	
Data Interfaces	10x RS422, 3x PWM (coil) 3x RW & FOG, 1x mems gyro, 1x magneto meter,
	2x star tracker, 2x sun sensors (3), 1x OBC, 3x Coil
Time Synchronisation	Dedicated pins for subsystems
Process Power	90 MIPS