

製品紹介

Space Cube

SEMC5701B

Space Wire (IEEE1355の拡張) × 3 portを搭載
 高性能 64bit RISCプロセッサVR5701CPU(NEC製)
 JAXA (宇宙航空研究開発機構) との共同開発
 超小型高性能ネットワークコンピュータ (52mm×52mm×55mm)



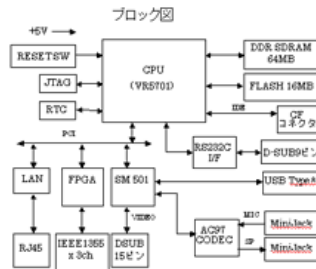
Space Cube



For SpaceWire related information, please see the following site



- Networking Protocol Working Group * 1, * 2: ESA / NASA / JAXA
 - High speed real-time data transmission * 3 exceeding i.LINK (IEEE 1394) * 3 and reliability are compatible.
 - There is no topology restriction and the switch can also be configured (bus bridge, router configuration is acceptable)
 - Provides advanced functions similar to ATM from digital home appliances to artificial satellites.
- * 1 The SpaceWire standard is a customized version of the IEEE 1355 standard. Its simple and reliable features are recognized, and it is widely applied from inter - device connection to inter - module connection. Space aircraft equipment companies from Japan participated in the development of standards, mainly by the space science research headquarters of Japan Aerospace Exploration Agency.
- * 2 SpaceWire Draft, ECSS-E-50-12A, <http://www.spacewire.esa.int/tech/spacewire>
- * 3 Transmission speed of each port is equivalent to IEEE 1394. Flexible topology selection is possible, exceeding the total link speed.



Specification list	
CPU	VR 5701 200 MHz / 250 MHz / 300 MHz
Flash memory	16 Mbytes
DRAM I / F	DDR SDRAM 64 Mbytes
Input / output	IEEE 1355 (SpaceWire), RTC, CF (True IDE), XGA (1024 × 768), USB 1.1, LAN (100 BASE), Audio (Stereo) input / output RS 232 C, JTAG I / F (for debugging)
Power supply	+5 V
External dimensions	52 mm × 52 mm × 55 mm (excluding protrusions)