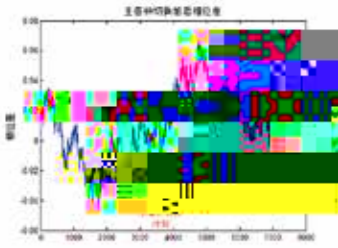


Academy of micro satellite Innovation Research Institute of China Academy of Sciences



With the belief of innovation motivates the development, the R&D team has accomplished dozens of break-through technologies, including the CAS navigation dedicated platform (which consists of the frame-panel light-weight structure, single star sensor positioning and high-density integrated electronic architecture), the designing concept of "functional chain", the Ka band inter-satellite link technology of phased array antenna, the seamless time frequency transform, the solid state amplifier made of gallium nitride as well as the high functional anti-radiation CPU and FPGA ("Loongson" LS1E and LS1F model). All these advanced technologies symbolize the icebreaking improvement of CAS into the navigation satellite field, and also make great contributions to China's Beidou Navigation System from regional operation to the global expansion.



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