

GR740 (NGMP)

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Abstract:

Under ESTEC contract 22279/09/NL/JK Cobham Gaisler has specified, designed, verified and validated a quad-processor LEON4FT system on-a-chip design. The design is ready for manufacturing on ST Microelectronics' European Space DSM technology platform C65SPACE. The development effort has also resulted in all major software products from Cobham Gaisler to now support the new architecture. The NGMP, which will be commercialized under the product name GR740, provides a significant performance improvement over earlier generations of European space microprocessors and the development is a significant advance in space processor architecture where the NGMP project has been a key driver toward multicore architectures within the European space industry.