

# NEWS RELEASE



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**AEROFLEX COLORADO SPRINGS  
SpaceWire 4-PORT ROUTER  
IN PRODUCTION**

COLORADO SPRINGS, CO – Aeroflex Colorado Springs, a wholly owned subsidiary of Aeroflex Holding Corp. (NYSE:ARX), announces the UT200SpW4RTR SpaceWire 4-Port Router is in production. The UT200SpWRTR enables the deployment of SpaceWire and fault-tolerant networking requirements for the aerospace community.

Originally developed by the European Space Community (document ECSS-E-50-12A), SpaceWire is a standard governing serial communication between nodes. The protocol is self-managing and provides a high speed, low power serial interface while offering a simple, low overhead user interface. The standard supports data rates of 2Mbps to 400Mbps over 10 meters of cable.

SpaceWire offers real-time data communications between sensors, memory units, and processors. Using a network router, many network configurations are possible allowing trade-offs between performance, fault tolerance, and overall mass of the network. Components or end points connect together using a point-to-point link. A router connects nodes together via non-blocking cross-point switches allowing for reliable high-speed communications between all nodes on the network.

“The UT200SpW4RTR allows customers the ability to implement various architectures, from single point-to-point end points with redundancy to distributed networks,” said Anthony Jordan, Director-Standard Products. “The 4-Port Router gives users the option to implement a node with either dual or triple redundancy or configure a scaleable fault-tolerance network of variable size. Customers have been designing with prototype units for some time.”

The UT200SpW4RTR 4-Port Router has a system interface port for five total ports, data rates up to 200Mbps on all four SpaceWire ports and is compliant to Standard ECSS-E-ST-50-12C. Power supply core is 2.5V with 3.3V I/O with a host (FIFO) clock frequency of 50MHz. Radiation performance is 100 krad(Si); packaging is a 255-lead CLGA. The UT200SpW4RTR is QML Q and V qualified.

“Aeroflex has worked with customers on interfacing multiple UT200SpW4RTRs together using the HOST port which offers a simple solution to increase port count. The HOST ports interface together using a FPGA that acts as an arbiter, equipped with look up tables, between the multiple UT200SpW4RTR devices. The UT699 LEON-3FT microprocessor configures, controls and monitors the UT200SpW4RTR. This chipset allows the LEON-3FT access to all configuration and status registers within the 4-Port Router making data and error monitoring a low overhead operation. An UT7R2XLR816 Clock Network Manager provides the five clocks the UT200SpW4RTR device requires providing a complete high reliability system.”

“Aeroflex saw the benefits of the SpaceWire standard used in numerous European projects; building a product family is our next step,” continued Jordan. “The benefits are straightforward. SpaceWire is a simple protocol, a simple user interface (FIFO), with high data rates and low power using LVDS, which has point-to-point full duplex and supports networked systems via routers. Aeroflex is pleased to serve the community with our SpaceWire products – Physical Layer Transceiver, Interface IP, 4-Port Router, FPGA-based SpaceWire Router solutions, evaluation boards and 4-Links Test Equipment.”

The UT200SpWRTR s \$4800.00 in QML Q lots of 100.

Aeroflex Colorado Springs, is a supplier of semicustom and standard VLSI circuits and custom circuit card assemblies. Aeroflex, Colorado Springs has received Qualified Manufacturer List (QML) certification for Class Q, Class T and Class V. Additionally, we have received a letter of compliance for ISO 9001 from the Defense Supply Center Columbus.

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For a copy of the UT200SpWRTR Datasheet, call 1-800-645-8862, write Aeroflex, 4350 Centennial Blvd., Colorado Springs, CO 80907, or visit our home page at [www.aeroflex.com/spacewire](http://www.aeroflex.com/spacewire) or [www.aeroflex.com/avionics](http://www.aeroflex.com/avionics).

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## **About Aeroflex**

Aeroflex Incorporated is a leading global provider of microelectronic components and test and measurement equipment used by companies in the space, avionics, defense, commercial wireless communications, medical and other markets.

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