



# Further SpaceWire Support from 4Links

SpaceWire Working Group  
Meeting 8  
17-19 January 2007

# EtherSpaceLink Diagnostic SpaceWire Interface



**Ethernet/Internet based bridges directly supporting 1 to 8  
SpaceWire interfaces up to 400Mb/s**

**+ *Additional Support for***

- **RMAP**
  - **Enables RMAP packets to be generated and interpreted**
  - **RMAP API provided**
- **Multiple time codes**
  - **Allows two, three or four separate time code streams**
- **Interrupts**
  - **Generate and respond to multiple broadcast interrupts**
- **Plug and play**
  - **Support for the emerging PnP capability**

# Flexible SpaceWire Router



- **Totally re-configurable routing switch – use a single box for multiple switches or multiple boxes for a large switch. May also be used as a data concentrator, MUX or DEMUX. Up to 400Mb/s.**

## **+ *Additional Support for***

- **Multiple time codes**
  - **Allows two, three or four separate time codes**
- **Interrupts**
  - **Generate and respond to multiple broadcast interrupts**
- **Plug and play**
  - **Support for the emerging PnP capability**

# Simple SpaceWire Interface Modules



**The new Simple SpaceWire Interface (SSI) modules are:**

- **wide 40-pin Dual-In-Line modules**
- **easily plug into matrix board**
- **connect to instruments, to microcontrollers or to memory.**

**All modules**

- **operate from 3.3v,**
- **are low power and**
- **include support for Plug and Play.**

# Simple SpaceWire Interface Modules



<b>Model</b>	<b>Function</b>
<b>SSI-M9F051</b>	<b>FIFO interface in each direction, 9-bits wide One SpaceWire interface, up to 50Mb/s</b>
<b>SSI-M8M051</b>	<b>Master interface to Memory or peripherals, 8-bit wide data One SpaceWire interface, up to 50Mb/s</b>
<b>SSI-M8P051</b>	<b>Slave interface, 8-bit wide data, to act as peripheral to a Processor One SpaceWire interface, up to 50Mb/s</b>