

ARTISAN®
TECHNOLOGY GROUP

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Artisan Technology Group
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Custom engineering
so your equipment works exactly as you specify.

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Expert team | Trust guarantee | 100% satisfaction

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Find the *Ametek / VTI Instruments / VXI Technology MTS-4000* at our website: *Click HERE*

MTS4000

Wireless Communication Switching Subsystem

- Optimized for Wireless Communications
- Modular Packaging Allows Re-use and Reconfiguration
- Miniature Footprint Reduces Rack Space
- Plug-in Building Blocks Improve Maintenance
- Programmable over GPIB, Firewire, PCI Backplanes or Virtually any other Interface
- Pre-packed Solutions Eliminate Engineering



Overview

The wireless communications industry is one of the fastest growing markets worldwide. Our wireless switching systems are optimized for applications such as:

Cellular phone testing

Cell site testing

Wireless modem testing

Wireless video teleconferencing

Broadband network product testing

Bluetooth products

Wireless internet and many more.

Our unique miniature microwave relays have been designed for long repeatable life cycles and optimized for bandwidths up to 18GHz. We utilize a modular building block approach where the microwave building blocks are easily combined to form the final configuration. Once the configuration is selected a small packaged GPIB solution is quickly and easily delivered from the factory.

A typical wireless test station is comprised of the following products:

Signal Source

Spectrum Analyzer

Power Meter

Specialized Communication Equipment

Power Supplies

Digital I/O

Signal Switching and "microwave glue hardware"

VTI specializes in providing solutions that satisfy the digital I/O, signal switching and "microwave glue hardware" sections of every wireless communications test station.

The Modular Concept

VTI uses a modular building block approach to configuring switching systems for the wireless communications marketplace.

The basic microwave building blocks consist of:

2 x SPDT 18 GHz relays per building block
1 x SP4T 18 GHz relay per building block
1 x SP6T 18 GHz relay per building block
1 x 18 GHz Transfer Switch per building block
1 x terminated 18 GHz relay per building block

For higher frequencies 26.5 GHz or 40 GHz building blocks can be provided. We also offer a full product family of optical and lower frequency switch products that can be combined with the microwave building blocks to enhance the switching system.

Once the appropriate building blocks are selected for the system configuration, they are then housed within a bench or rack mountable mainframe. All these building blocks plug-in directly from the front, and are easily replaced when they wear out. This approach is critical for maintaining test system up time in high volume manufacturing environments.

Additional components such as couplers and attenuators can then be housed in adjacent modules with a similar concept as above.

An example of a typical wireless switching system is shown in Figure 1.

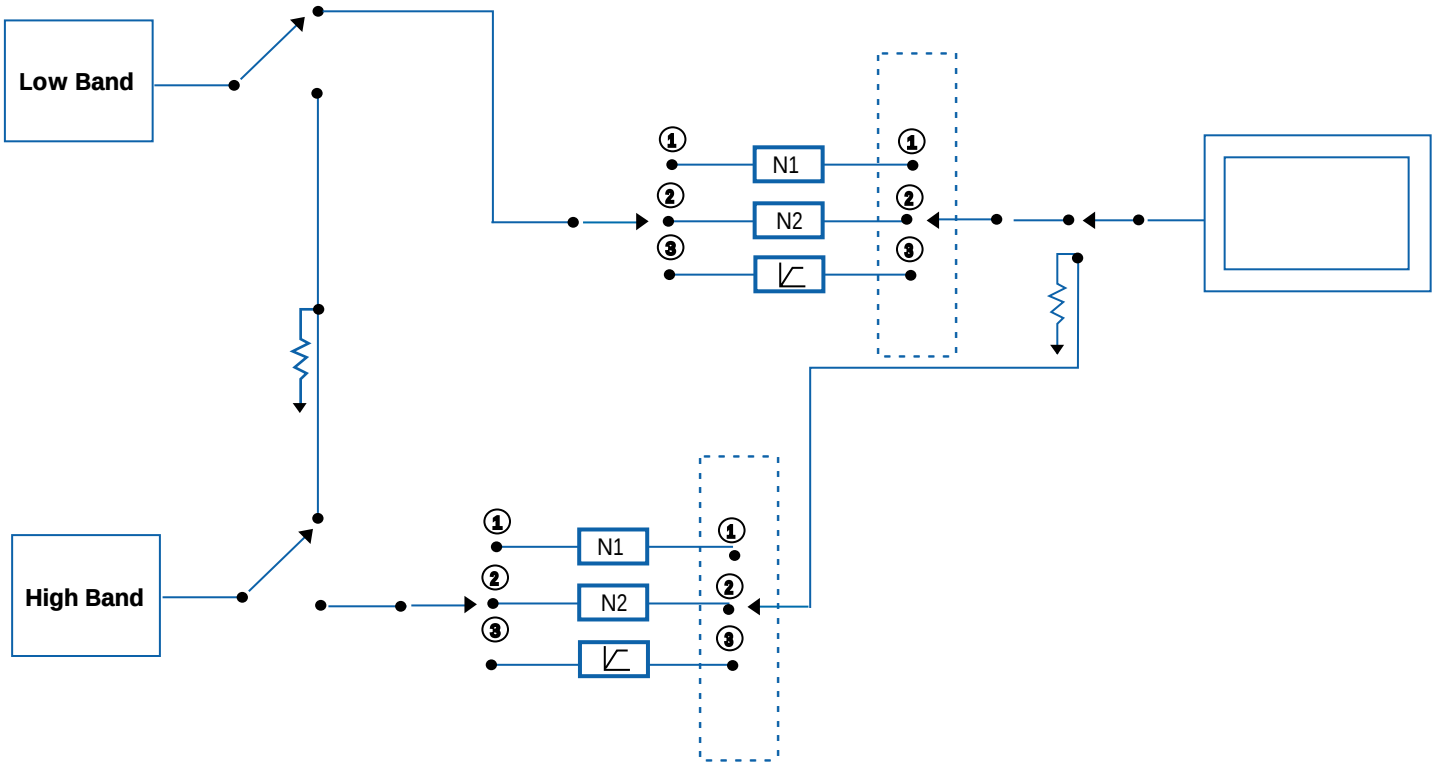
Programmable Control

Our open architecture design using industry standards allows the switching solution to be controlled via virtually any standard interface, i.e., GPIB, FireWire, RS-232, Ethernet, PCI backplane (MXI-2). Combined with powerful industry standard software drivers and graphical user interfaces (GUIs) makes controlling the complete system a breeze, reducing any internal engineering development.

MTS4000 GPIB Microwave Switch System

CT100B	**Slot Mainframe**
GPIB-VXI/C	**GPIB Interface**
VM9000/VM1548C	**48-channel open-collector I/O**
VM7000	**Single-slot Base Unit**
SM7270 x 2	**4 x SPDT 18 GHz Switches**
SM7274 x 4	**4 x SP6T 18 GHz switches**

Example - Switching Configuration



Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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