

General

Automating "patch panels" is a proven & effective method to reduce facility operating costs by increasing efficiency, productivity, repeatability, and reliability. Our BS1553F(X) unit is a modular high density 5RU automated patch unit that can be configured in symmetric or asymmetric configurations from 8x8 to 64x64 within the same chassis.

Designed specifically for a passive differential signal path, high reliability mechanical relay technology is used with DC coupling (no transformers). Each input and output is terminated with 78 ohms (center pin to inner shield) when not selected to be patched. The internal stub-breaking design provides a nearly "transparent" 1553B environment to allow for accurate bus simulations.

Fully populated, this 5RU unit contains a total of 64 inputs and 64 outputs where each input can be connected to any one of the 64 outputs. The BS1553FX is the same but has a 10.1" display (**Option X**) and additional front panel features.

The unit comes standard with redundant hot-swap power supplies, and is available with either single or dual (redundant) hot-swap C3 controllers installed. The C3 controller features 10/100 Ethernet (LXI certified), USB 2.0 and multi-serial (RS-232C/422A/485) control ports. Contact your local sales representative or the factory for assistance.

Applications

- 1553B Bus simulation connectivity
- Aircraft test lab facilities
- Clock and Data routing
- Differential 422 routing (1:1)
- Data recorder data management

Features

- Passive high reliability Tri-Stage design
- Modular I/O for easy expansion & maintenance
- LED indicators adjacent to each port
- Flexible configuration: 8x8 up to 64x64 (or larger)
- Multiple units can be grouped to configure 256x256
- Ultra-high density Tri-Stage design
- DC to >15Mbps throughput
- Hot-swap module technology
- Menu driven color touchscreen display (4.3" or 10.1")
- Available with either single or dual CPUs
- 10/100 Ethernet, USB and Serial control ports *
- Includes TCP/IP, SNMP, SNT, IPv4 & IPv6 & browser
- Removable microSD card for secure environments
- Rugged 5RU high aluminum chassis (8.75")
- International AC power range
- Self-monitoring hot-swap plug-in supplies with PFC
- Integrated rack mount design (19 inch)
- Chassis slide mounting hardware (slides not included)
- Certified CE EN61010 (LVD)
- Compatible with RouteWarePRO control software

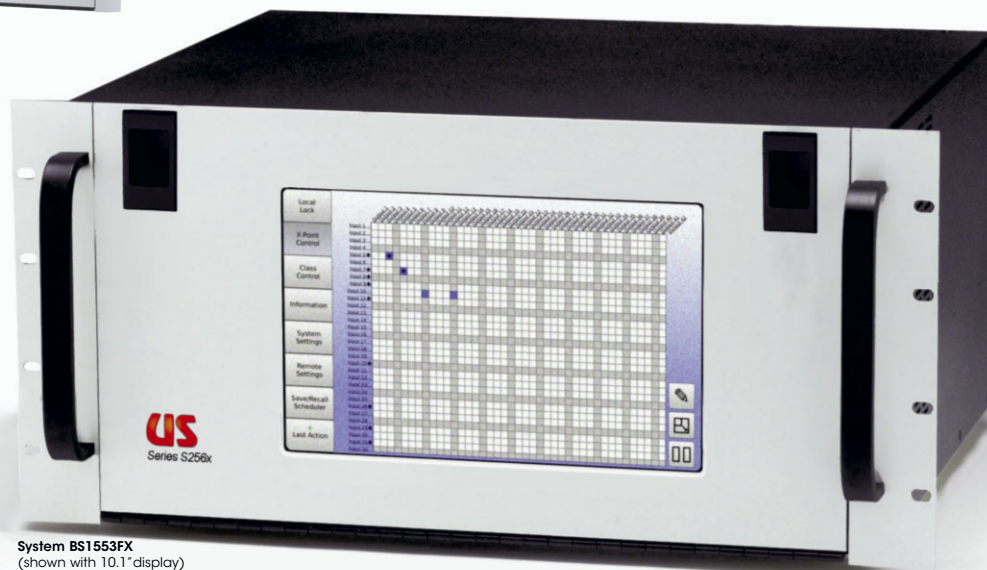
* New C3+ control CPU in Q3 2019 includes 1GB Ethernet and SNMP v1/v2/v3.



System BS1553F
(shown with 4.3" display)



Download our Monitor & Control software **RouteWarePRO** for a FREE 30-day trial today!



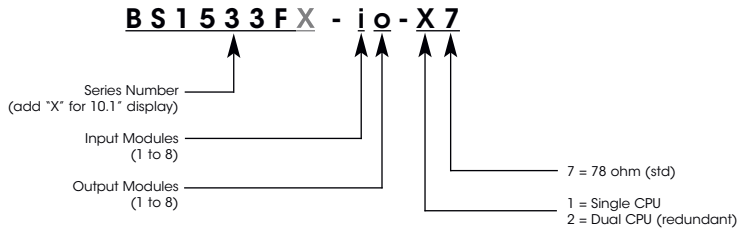
System BS1553FX
(shown with 10.1" display)



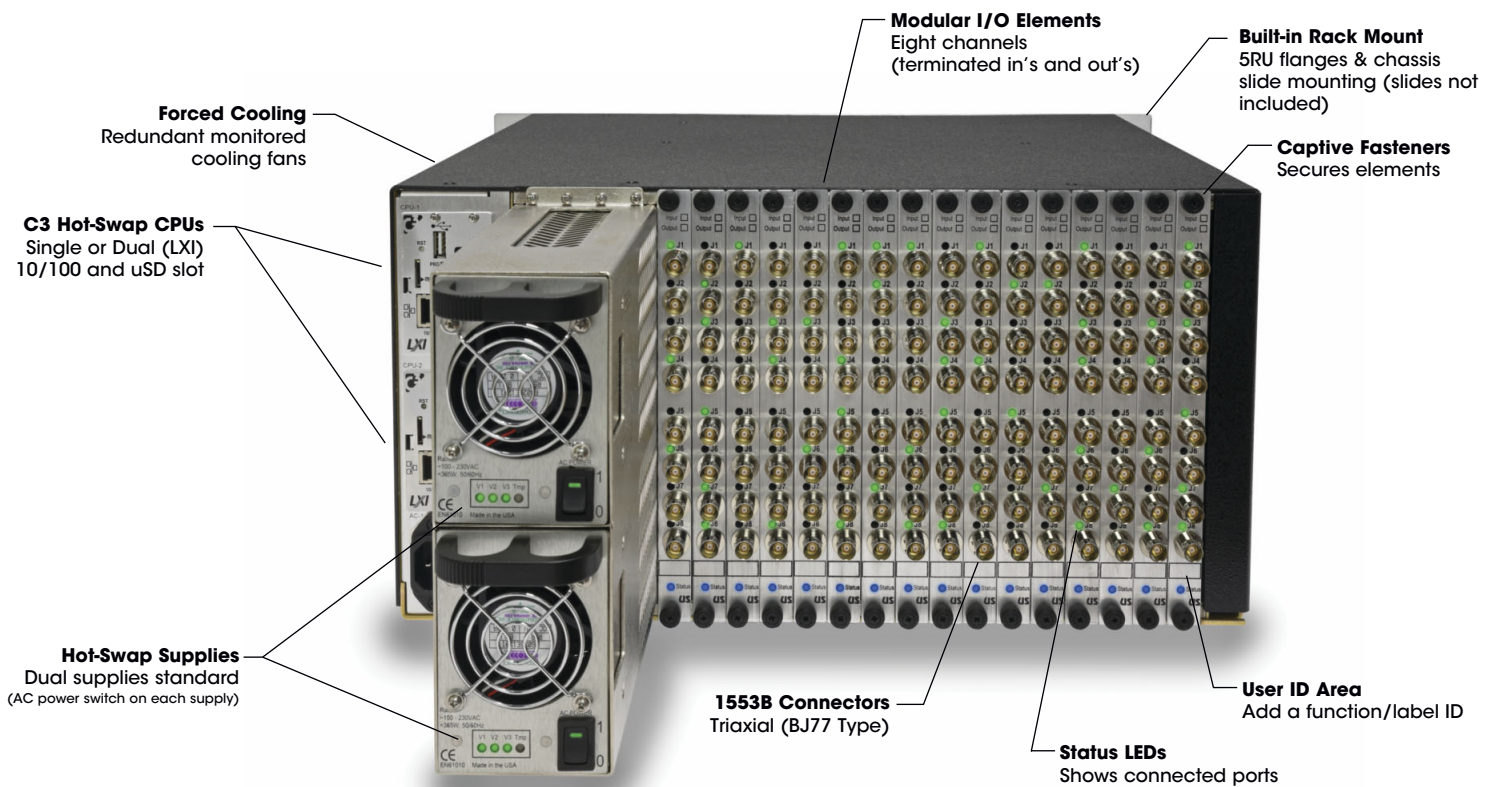
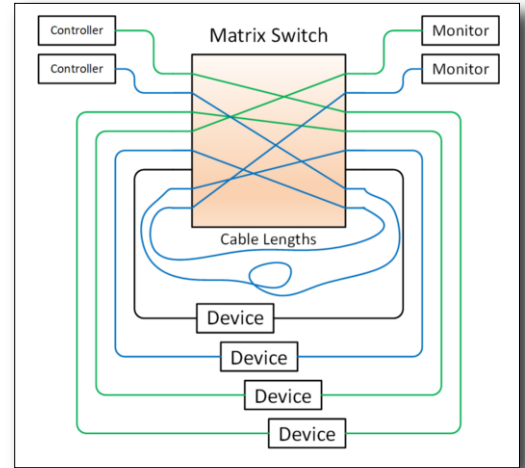
Made in the USA

BS1553F-201902

Model Number Assignment



1553B Bus Simulation
Automated patch for including cables and hardware into the configuration.



System BS1553F Specifications

Minimum array size	.8 input, 8 output
Maximum array size	.64 input, 64 output
Expansion increment	.8 ports per module
Switching technology	.Passive (mechanical relay)
Type of system	.1:1 connectivity (patching)
Architecture	.Tri-Stage redundant, bidirectional

Signal Characteristics

Impedance	.78 ohm (pair)
Signal type	.1553 differential
Connector	.Triaxial (BJ77)
Termination	.78 ohm (between pair)
Frequency	.DC - 15Mbps

Factory Spares

I/O module (eight channel, 78 ohm)	.VRIO-1553B-87X (78 ohm, Triax)
Mid-module	.VRM-1553B-7X
Power supply element	.PS256XF-200

General Specifications

Module technology	.Hot-Swappable
Power supply section	.Redundant hot-swap
Controller CPU	.Single or Dual (redundant)
Remote interface	.10/100 Ethernet, USB & Serial (232/422/485) *
Protocol	.TCP/IP, SNMP v1/v2, SNMP, IPV4, IPV6 *
Local control	.Color touchscreen (4.3" or 10.1")
Configuration routing	.AutoRoute or manual
Configuration memory	.Flash
Cooling	.Forced cooling with RPM monitoring
AC power requirements	.90-264VAC, 47-63Hz, <400Watts
Power cords	.Dual inputs (USA 15A)
Weight	.50lbs
Size	.8.73H x 22.00D x 19.00W (5RU)
Operating temp	.0 to +60C
Non-operating temp	.-20 to +85C
Humidity	.0 to 95% (NC @ +25C)
MTBF	.>135,000 hours (per MIL-HDBK-217F N1, ground benign @ +25C) estimated

* New C3+ control CPU in Q3 2019 includes 1GB Ethernet and SNMP v1/v2/v3.

Universal Switching's policy is one of continuous development, and consequently the company reserves the right to vary from the descriptions and specifications shown in this publication.