



## Automated Fallback Switch AFS-16-1 ARM

### A/B Physical Interface Switching For Agile Data Connections

The AFS-16-1 is designed to provide failover support for mission critical networks. During network faults, device failures or security breaches the AFS can automatically control physical connections throughout your network. Switch primary connectivity between two devices or isolate nodes from the LAN/WAN using WTI DevOps Automation, Web, CLI or manual switch. Manage up to 16 connections per chassis to maintain network agility and ensure data connectivity between devices.

#### DevOps Automation:

- RESTful Web Services API
- Modules Available on Ansible Galaxy
- SYSLOG & Streaming Telemetry Support
- WebHook Support (Slack/Splunk/WebEx)
- Zero Touch Provisioning (ZTP) Support

#### Unit Management:

- Compatible with WTI Centralized Management
- CLI & HTML5 Web-Based GUI
- SNMP & Full MIB Support
- FTP/TFTP/SFTP/SCP
- DHCP/DNS/DDNS
- NTP for True Server Sync
- Multiple Concurrent SSHv2 Sessions

#### Security & Authentication:

- HTTPS, SSHv2, SNMPv3
- Transport Layer Security (TLS) v1.3
- IPSec (Server/Client) & OpenVPN
- IPtables / Static Routes
- Supports Duo, Okta and RSA® Two-Factor Authentication
- SAN Certificate Support
- AAA: LDAP/Active Directory/Kerberos/RADIUS/TACACS+
- Embedded Validated FIPS 140-2 Cryptographic Module
- Port and Service Specific Access Restrictions
- Invalid Access Lockout & Alarm

#### Port/Connection Switching:

- Up to 16 Switched Circuits
- Ethernet Connectivity Switching (10/100/1000, T1/E1, RS-233/422/485)
- Control Circuits via Web, CLI, REST API, Code/Command or Manually
- Accepts SNMP Commands to Control Switching and Select Parameters
- User Defined Default A/B Settings
- Ping-No-Answer(Watchdog) Fallback Switching

#### In-Band/Out-of-Band Connectivity:

- Primary Ethernet: 10/100/1000
- Supports IPv4 and IPv6
- Reverse/Outbound SSH
- RJ45 Setup Port (RS-232) For Modem or Local Access

#### Event Monitoring, Logging & Notification:

- Temperature, Command & Event Logging
- Time Stamp & Non-Connect Port Buffering
- Power Cycle & Lost Communication Alarms
- Ping-No-Answer Alarm (Failed Ping Command)
- Over-Temperature Alarms

# Automated Fallback Switch

## AFS-16-1 ARM

Switched Circuit Card: Up to 16 Modules	
Interface:	RJ45-3, Three Jacks, 8 Pins Switched Common Jack to A or B Jack.
Contacts:	High Reliability, Mechanical Relays, Break-Before-Make Contacts with 1 Amp @ 30 VDC Rating, 100 Million Cycle Life.
Switching: API/Code/Web/CLI Manual	By Slot Number or by Name. Individual Toggle Switch, Plus Gang Switching from Control Module.
Card Rack and Control Unit	
Ethernet Port:	RJ45, 10/100/1000Base-T
Serial Console Port:	RJ45, RS-232
AUX Connector:	5-Pin Quick-Connect Terminal Block for Connection to Alarm Output and Monitor Inputs (Low: 0 to -48V, High: +5 to +48V).
RS232 Port Interface:	
Connector:	One (1) RJ45 connector (DTE pinout)
Coding:	7/8 bits, Even, Odd, No Parity, 1, 2 Stop Bits
Flow Control:	XON/XOFF, RTS/CTS, Both, or None
Data Rate:	300 to 230.4K bps
Physical/Environmental:	
Size:	5.25" x 19.00" x 6.75" (H x W x D)
Power:	100/240 VAC 50/60 Hz, 15 watts, Dual Inputs
Weight:	Shipping Weight, Fully Loaded, 15 pounds
Operating Temp.:	32°F to 122°F (0°C to 50°C)
Humidity:	10 - 90% RH
Ordering Information:	
AFS-16-1	Base Unit: AFS-16R (Card Rack,) AFS-16P-Dual (Power Supply) & AFS-16ARM (Control Card)
AFS-16R	AFS Rack/Chassis, 19" Rack Mount
AFS-16P-Dual	AFS Dual Input Power Supply Module
AFS-16ARM	AFS Control Card
AFS-RJ45	Individual RJ45 A/B Circuit Card Module
AFS-16BP1	Blank Panel; Covers One Empty Card Slot
AFS-16BP4	Blank Panel; Covers Four Empty Card Slots

- ✓ 5 Year Warranty
- ✓ Stocked for Same Day Shipments
- ✓ In-House Design & Manufacturing
- ✓ Made In USA



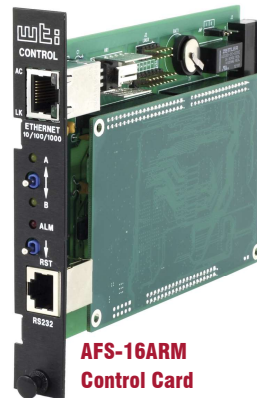
### Automated Response and Environmental Monitoring:

When an external device fails to respond to ping commands, the AFS can automatically switch A/B paths and provide notification. The Input Contact Monitor allows the AFS to watch signal status at an input contact, and then switch circuits or activate optional external devices when significant signal changes are observed. In addition, the AFS can switch connections using WTI DevOps RESTful API for complete automation of your disaster recovery or security incident response protocols.

The AFS-16 can constantly monitor temperature levels, ping response and other factors. When user defined thresholds for these values are exceeded, the unit can promptly notify you via API, SNMP Trap, Email, Text Message or Syslog Message, allowing rapid response to critical events.

### Convenient Modular Design

The AFS-16 unit consists of a Card Rack, one Dual Power Supply Module, one Control Card, and up to 16 Switched Circuit Cards. The modular design allows the AFS to grow as your switching needs grow; by simply adding additional Circuit Cards as your application requires them.



## Automated Fallback Switching

WTI - Western Telematic, Inc.

5 Sterling • Irvine • California 92618-2517 • Toll Free (800) 854-7226 • [info@wti.com](mailto:info@wti.com) • [www.wti.com](http://www.wti.com)

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