

## SMILES™ SABTECH MILITARY EQUIPMENT REPLACEMENT SYSTEM

SMILES™ is a high performance, low cost replacement for legacy navy peripheral equipment. Using up-to-date technology, SMILES™ replaces aging devices that are often difficult and expensive to maintain. With its intuitive graphical interface, SMILES™ is easy-to-use while at the same time adding powerful capabilities not possible with the original equipment.

Because SMILES™ performs exactly like the equipment being replaced, no program changes are needed on the host. It is configured with military connectors that mate with existing cables to further simplify the transition and save costs. Conversion of existing media to SMILES™ is done using standard navy utility programs or with Sabtech's tape conversion utility (included). Once converted, SMILES™ completely eliminates dependence on unsupportable hardware and obsolescent tape and disk media.

### SMILES™ Replaces The Following Legacy Equipment:

- OJ-172 Data Exchange Auxiliary Console (DEAC)
- RD-358 Magnetic Tape Subsystem (MTS)
- USH-19 Magnetic Tape Subsystem (MTS)
- USH-26 Cartridge Magnetic Tape Unit (CMTU)
- UYH-3 Magnetic Disk Set (Basic and FMFS)
- UYH-16 Magnetic Disk Set (FMFS)
- OL-267 Data Terminal Group (DTG)
- OA-7984 I/O Console (aka UNIVAC 1532)
- USQ-69 Data Terminal Set (DTS)

If the device you need to replace is not listed, please contact us. Sabtech's staff of experienced system engineers will be glad to discuss your application and show how SMILES™ can be adapted to meet your requirements.



SMILES™  
FRONT  
VIEW

### Replace Disk Drives

SMILES™ replaces two of the most common navy disk peripherals, the UYH-3 and the UYH-16. Both the Basic and File Management command sets are supported. Disk packs and Removable Interchangeable Media Modules (RIMMs) are mapped to local or networked disk drives. Multiple packs or RIMMs can be stored on a single SMILES™ disk and are easily mounted by simply selecting from a pop-up list.

### Replace Magnetic Tapes

SMILES™ replaces tape transports like the OJ-172, RD-358, USH-19 and USH-26 by mapping local or networked disk drives to magnetic tape unit numbers. Tape records are stored as separate files with unique names. SMILES™ accesses these files in sequential order, simulating tape movement. All tape commands are supported such as read, write, rewind, write tape mark, space file, etc. The number of tapes that can be stored on SMILES is limited only by available disk space. Tapes are easily mounted by selecting from a pop-up list.

## Replace Operator I/O consoles

SMILES™ replaces operator I/O consoles such as the OJ-172, OL-267, USQ-69 and OA-7984 (Univac 1532). Keyboard and display text may be concurrently printed and recorded to an ASCII file making it easy to transmit console I/O for later printing or pasting into reports and manuals. Operator keystrokes can also be stored in macro files and replayed, saving time and eliminating errors for complex, lengthy, or repetitive keyboard inputs. Macros can also be used to automate execution of tests or system startup. To replay a macro, the operator simply selects from a pop-up list. The number of macro files is unlimited.

## Replace Multiple Devices with One SMILES™

A single SMILES™ unit can replace multiple devices. Each device is independent and operates concurrently with other devices. Any combination of the same device or different devices is possible. For example a single SMILES unit can replace the OL-267, RD-358 and UYH-16 or it can replace three UYH-16s. Device combinations are limited only by the number of installed NTDS interfaces and amount of memory.



## Up to 128 Configurations for Each Device

Each device can have up to 128 stored configurations. Easily start an individual device or a complete suite of devices that are preset with NTDS channels, display settings and have the desired media already mounted.

## Media Options

SMILES™ works with any type of local or networked disk (fixed or removable hard disk, floppy, CD, optical, Zip, etc.) allowing a wide variety of media options.

## Remote Control

SMILES™ may be remotely controlled over a TCP/IP network. This powerful capability makes it possible to do things such as remote data collection or centralized control for multiple SMILES units. Start or stop devices, mount media, change configuration, perform keyboard entries, or do virtually anything that can be done at the local SMILES™ system.



*your NTDS specialist*

# SABTECH INDUSTRIES

## Basic System Specifications

- Plug and play replacement for the OJ-172, RD-358 (7/9 Track), USH-19 USH-26, UYH-3, UYH-16, OL-267, USQ-69 and OA-7984
- Up to 128 configurations for each device
- Touch screen color LCD display
- Parallel/Serial MIL-STD-1397 (NTDS) interfaces
- Fold-down keyboard with built-In trackball
- M81511 (85-pin), M28840 (92-pin) or D38999 (79-pin) connectors
- Dual fan cooling system with replaceable air filter
- Shock isolated drives
- 300 watt power supply, 110/220 VAC, 50-400 Hz
- **Temperature:**
  - Operating: 0° to 55° C
  - Storage: -40° to 70° C
- **Vibration:**
  - Operating: .02" double ampl. at 5-25 Hz, 1G at 26-500 Hz
  - Non-operating: .04" double ampl. at 5-25 Hz, 8G at 26-500 Hz
- **Shock:**
  - Operating 20G
  - Non-operating 60G
- 19" Rack mountable system enclosure
- **Weight:**
  - 40 lbs. typical
- **Dimension:**
  - 8.75" H X 19" D X 19"

## Options & Accessories

Contact your Sabtech Sales Representative or visit the Accessories section of this website for more information on the following :

- Portable Enclosures
- Interconnecting Cables
- Transport Case



## Ordering Information

| Product  | Description                          | Part Number (Choose your configuration) |                    |                      |                      |     |                             |                               |
|----------|--------------------------------------|---|--------------------|----------------------|----------------------|-----|-----------------------------|-------------------------------|
|          |                                      | SC-4                                    | X                  | X                    | X                    | 2 - | X                           | X                             |
| SMILESTM | Sabtech Military Equipment Simulator |   | <u>Fixed Media</u> | <u>1st Drive Bay</u> | <u>2nd Drive Bay</u> |     | <u># of Serial Channels</u> | <u># of Parallel Channels</u> |
|          |                                      |   | 0 = Fixed HDD      | 0 = CDRW             | 0 = Zip Drive        |     |                             |                               |
|          |                                      |   | 1=No Fixed HDD     | 2 = Zip Drive        | 2 = CDRW             |     |                             |                               |
|          |                                      |   | 3 = Rem. HDD       | 3 = Rem. HDD         |                      |     |                             |                               |