

## MILTECH 904, 918, 919, 908, 912, 914, 948, 610POE, 910POE, PLATFORM UPGRADE COMPARISON

| FEATURES            |  | 00X | 10X |
|---------------------|--|-----|-----|
| PORT CONTROL        | Port speed, duplex mode, and flow control                    | ✓   | ✓   |
|                     | Port frame size (jumbo frames)                               | ✓   | ✓   |
|                     | Port state (administrative status)                           | ✓   | ✓   |
|                     | Port status (link monitoring)                                | ✓   | ✓   |
|                     | Port statistics (MIB counters)                               | ✓   | ✓   |
|                     | Port VeriPHY (cable diagnostics)                             | ✓   | ✓   |
|                     | POE/POE+   | ✓   | ✓   |
|                     | POE/POE+ with LLDP   | ✓   | ✓   |
|                     | Node Processor Interface (NPI) port                          |     |     |
|                     | PCIe   | ✓   | ✓   |
|                     | Inband management (VRAP)                                     | ✓   | ✓   |
|                     | On-the-fly SFP detection                                     | ✓   | ✓   |
|                     | Injection header   | ✓   | ✓   |
|                     | Extraction header  | ✓   | ✓   |
|                     | DDMI   | ✓   | ✓   |
| PROTECTION FEATURES | Unidirectional Link Detection (UDLD)                         | ✓   | ✓   |
|                     | Port protection with services                                |     | ✓   |
|                     | MPLS-EVC 1:1 E-LINE protection                               |     | ✓   |
|                     | MPLS-TP 1:1 LSP protection                                   |     | ✓   |
| QoS                 | Traffic classes (8 active priorities)                        | ✓   | ✓   |
|                     | Port default priority  | ✓   | ✓   |
|                     | User priority  | ✓   | ✓   |
|                     | Input priority mapping                                       | ✓   | ✓   |
|                     | QoS control list (QCL mode)                                  | ✓   | ✓   |
|                     | Storm control for UC, MC, BC, and unknown                    | ✓   | ✓   |
|                     | Random Early Detection (RED)                                 | ✓   | ✓   |
|                     | Policers—port policers and global/VCAP (ACL) policers        | ✓   | ✓   |
|                     | Port and queue egress shapers                                | ✓   | ✓   |
|                     | DiffServ (RF 2474) remarking                                 | ✓   | ✓   |
|                     | Tag remarking  | ✓   | ✓   |
|                     | Scheduler mode   | ✓   | ✓   |
|                     | Service policing (including BW profile)                      |     | ✓   |
|                     | H-QoS scheduling   |     | ✓   |
|                     | Per-ASP and EVC queuing and scheduling (per service queuing) |     | ✓   |

00X= NON-ENHANCED VERSION OF TECHAYA MANAGED ETHERNET SWITCHES

| FEATURES   |   | 00X | 10X |
|--|---|-----|-----|
| L2 SWITCHING                                       | IEEE 802.1D Bridge, auto MAC address learning/aging and MAC addresses (static)            | ✓   | ✓   |
|  | IEEE 802.1Q Virtual LAN   | ✓   | ✓   |
|  | Private VLAN (static)   | ✓   | ✓   |
|  | Port isolation (static)   | ✓   | ✓   |
|  | MAC-based and protocol-based VLAN   | ✓   | ✓   |
|  | IP subnet-based VLAN  | ✓   | ✓   |
|  | VLAN trunking   | ✓   | ✓   |
|  | GARP VLAN registration (GVRP)   | ✓   | ✓   |
|  | IEEE 802.1ad Provider Bridge (native or translated VLAN)                                  | ✓   | ✓   |
|  | IEEE 802.1Q-2005   Multiple spanning tree—MSTP, TSTP, STP   Rapid spanning tree—RSTP, STP | ✓   | ✓   |
|  | Loop guard  | ✓   | ✓   |
|  | IEEE 802.3ad Link Aggregation, static and LACP  | ✓   | ✓   |
|  | BPDU guard and restricted role  | ✓   | ✓   |
|  | VSC6812SDK and VSC6813SDK   | ✓   | ✓   |
|  | BPDU transparency and forwarding (customer specific)                                      | ✓   | ✓   |
|  | Error disable recovery  | ✓   | ✓   |
|  | IGMPv2 snooping   | ✓   | ✓   |
|  | IGMPv3 snooping   | ✓   | ✓   |
|  | MLDv1 snooping  | ✓   | ✓   |
|  | MLDv2 snooping  | ✓   | ✓   |
|  | IGMP filtering profile  | ✓   | ✓   |
|  | IPMC throttling, filtering, and leave proxy   | ✓   | ✓   |
|  | Multicast VLAN registration (MRV) and MRV profile   | ✓   | ✓   |
|  | Voice VLAN  | ✓   | ✓   |
|  | DHCP snooping   | ✓   | ✓   |
| ARP inspection                                     | ✓   | ✓   |     |
| Port mirroring                                     | ✓   | ✓   |     |
| Flow mirroring                                     | ✓   | ✓   |     |
| Rmirror  | ✓   | ✓   |     |
| VLAN translation                                   |   | ✓   |     |
| L3 SWITCHING AND ROUTING                           | E-LINE (EPL, EVPL)  |     | ✓   |
|  | E-LAN (EP-LAN, EVP-LAN)   |     | ✓   |
|  | E-TREE (EP-TREE, EVP-TREE)  |     | ✓   |
|  | DHCP option 82 relay  | ✓   | ✓   |
|  | Universal Plug and Play (UPnP)  | ✓   | ✓   |
|  | IPv4 unicast static routing   | ✓   | ✓   |
|  | IPv4 unicast static routing (hardware accelerated)  | ✓   | ✓   |
| IPv6 unicast static routing                        | ✓   | ✓   |     |
| IPv6 unicast static routing (hardware accelerated) | ✓   | ✓   |     |

10X= ENHANCED VERSION OF TECHAYA MANAGED ETHERNET SWITCHES

| FEATURES      |   | 00X               | 10X |
|---------------|---|-------------------|-----|
| SECURITY      | RADIUS accounting   | ✓                 | ✓   |
|               | MAC address limit   | ✓                 | ✓   |
|               | MAC freeze (customer specific)  | ✓                 | ✓   |
|               | MAC spoofing (customer specific)  | ✓                 | ✓   |
|               | IP MAC binding, dynamic to static   | ✓                 | ✓   |
|               | TACACS+ Accounting, authentication and authorization, command authorization | ✓                 | ✓   |
|               | Web and CLI authentication  | ✓                 | ✓   |
|               | Authorization (15 levels)   | ✓                 | ✓   |
|               | ACLs for filtering, policing, and port copy                                 | ✓                 | ✓   |
|               | IP source guard   | ✓                 | ✓   |
|               | Network Access Server (NAS)   | ✓                 | ✓   |
|               |   | Port-based 802.1X | ✓   |
|               | Single 802.1X   | ✓                 | ✓   |
|               | Multiple 802.1X   | ✓                 | ✓   |
|               | MAC-based authentication  | ✓                 | ✓   |
|               | VLAN assignment   | ✓                 | ✓   |
|               | QoS assignment  | ✓                 | ✓   |
|               | Guest VLAN  | ✓                 | ✓   |
| 1588 & SYNC   | Peer to peer transparent clock  |                   | ✓   |
|               | End to end transparent clock  |                   | ✓   |
|               | PTP over IPV4   |                   | ✓   |
| ROBUSTNESS    | Cold start  | ✓                 | ✓   |
|               | Cool start  | ✓                 | ✓   |
| POWER SAVINGS | ActiPHY™, PerfectReach™   | ✓                 | ✓   |
|               | Ethernet Energy Efficient (EEE) power management                            | ✓                 | ✓   |
|               | LED power management  | ✓                 | ✓   |
|               | Thermal protection  | ✓                 | ✓   |
|               | Adaptive fan control  | ✓                 | ✓   |
| MANAGEMENT    | JSON-RPC  | ✓                 | ✓   |
|               | Stack IP address  | ✓                 | ✓   |
|               | DHCP client   | ✓                 | ✓   |
|               | DHCP server   | ✓                 | ✓   |
|               | Double VLAN tag management  | ✓                 | ✓   |
|               | DNS client, proxy   | ✓                 | ✓   |
|               | HTTP server and HTTPS   | ✓                 | ✓   |
|               | Web with stack management   | ✓                 | ✓   |
|               | CLI console port  | ✓                 | ✓   |
|               | CLI Telnet  | ✓                 | ✓   |
|               | CLI stack management  | ✓                 | ✓   |
|               | Industry-standard CLI   | ✓                 | ✓   |
|               | Industry-standard CLI debug commands  | ✓                 | ✓   |
|               | Industry-standard configuration   | ✓                 | ✓   |
|               | Management access filtering   | ✓                 | ✓   |
|               | SSHv2   | ✓                 | ✓   |
|               | IPv6 Management   | ✓                 | ✓   |

00X= NON-ENHANCED VERSION OF TECHAYA MANAGED ETHERNET SWITCHES

| FEATURES  |  | 00X  | 10X |   |
|---|--|--|-----|---|
| MANAGEMENT CONTINUED  | IPv6 Ready Logo Phase 2                      | ✓  | ✓   |   |
|   | RFC 4884 (ICMPv6)                            | ✓  | ✓   |   |
|   | System Syslog                                | ✓  | ✓   |   |
|   | Software upload through Web                  | ✓  | ✓   |   |
|   | SNMPv1/v2c/v3 Agent                          | ✓  | ✓   |   |
|   | RMON Group 1, 2, 3, and 9                    | ✓  | ✓   |   |
|   | RMON alarm and event (CLI, Web)              | ✓  | ✓   |   |
|   | SNMP multiple trap destinations              | ✓  | ✓   |   |
|   | IEEE 802.1AB-2005 Link Layer Discovery, LLDP | ✓  | ✓   |   |
|   | TIA 1057 LLDP-MED                            | ✓  | ✓   |   |
|   | Cisco Discovery filtering, CDP               | ✓  | ✓   |   |
|   | sFlow  | ✓  | ✓   |   |
|   | Configuration download and upload            | ✓  | ✓   |   |
|   | Loop detection default restore               | ✓  | ✓   |   |
|   | Symbolic Register Access                     | ✓  | ✓   |   |
|   | Daylight savings                             | ✓  | ✓   |   |
|   | MIBS   | RFC 1213 MIB II  | ✓   | ✓ |
|   |  | RFC 1215 A Convention for Defining Traps for Use with the SNMP | ✓   | ✓ |
|   |  | RFC 2613 SMON MIB: VLAN statistics and port copy               | ✓   | ✓ |
|   |  | RFC 2674 VLAN MIB  | ✓   | ✓ |
| RFC 2819 RMON (Group 1, 2, 3, and 9)                                |  | ✓  | ✓   |   |
| RFC 2863 Interface Group MIB using SMI v2                           |  | ✓  | ✓   |   |
| RFC 3411 SNMP Management Frameworks                                 |  | ✓  | ✓   |   |
| RFC 3414 User-based Security Model for SNMPv3                       |  | ✓  | ✓   |   |
| RFC 3415 View-based Access Control Model for SNMP                   |  | ✓  | ✓   |   |
| RFC 3621 LLDP-MED Power   |  | ✓  | ✓   |   |
| RFC 3635 Ethernet-like MIB  |  | ✓  | ✓   |   |
| RFC 3636 802.3 Medium Attachment Units (MAUs) MIB                   |  | ✓  | ✓   |   |
| RFC 4133 Entity MIB v3  |  | ✓  | ✓   |   |
| RFC 4188 Bridge MIB   |  | ✓  | ✓   |   |
| RFC 4292 IP Forwarding Table MIB                                    |  | ✓  | ✓   |   |
| RFC 4293 Management Information Base for the Internet Protocol (IP) |  | ✓  | ✓   |   |
| RFC 4668 RADIUS Authentication Client MIB                           |  | ✓  | ✓   |   |
| RFC 4670 RADIUS Accounting MIB                                      |  | ✓  | ✓   |   |
| RFC 5519 Multicast Group Membership Discovery MIB                   |  | ✓  | ✓   |   |
| IEEE 802.1 MSTP MIB   |  | ✓  | ✓   |   |
| IEEE 802.1AB LLDP MIB (LLDP MIB included in clause of standard)     | ✓  | ✓  |     |   |
| IEEE 802.1X MIB (PAE MIB included in clause of standard)            | ✓  | ✓  |     |   |
| IEEE 802.1Q Bridge MIB 2008   | ✓  | ✓  |     |   |
| IEEE 802.3ad MIB (LACP MIB included in clause of standard)          | ✓  | ✓  |     |   |
| Phase 1 Private MIB support   | ✓  | ✓  |     |   |
| TIA 1057 LLDP MED (MIB is part of the standard)                     | ✓  | ✓  |     |   |

10X= ENHANCED VERSION OF TECHAYA MANAGED ETHERNET SWITCHES