



## NTDS to TCP/IP Ethernet Converters

**GET Engineering MIL-STD-1397 NTDS to TCP/IP (Ethernet) Converters transform NTDS data to standard Ethernet protocol effectively turning your NTDS ports into a NIC Card that meets NTDS latency specifications. Any NTDS device can be accessed through a standard GB Ethernet port. GET Converters integrate legacy UYK tactical data processors and peripheral equipment into the new Net Centric "Open Architecture" standard. Hardware configurations are offered in various Rugged Enclosures and Rack Mounted 4U Chassis.**

Software conforms to the standard **GET Engineering driver protocol**. The user configures the server software through the TCP/IP connection using the **GET Common User Interface** for ease in application development and porting. Multi node connectivity is through the Ethernet interface.

### Key Hardware & Maintenance Features

- Touch Screen Panel for Adapter Status & Configuration
- Short Circuit protection on all Outputs
- Field Upgradeable Firmware
- Hot Swappable
- Tri-State of NTDS Interface
- Cat 5 wire (copper) or Fiber output
- Extensive Built-In-Test Options
- Loop-back through Fiber-optic Interface
- Loop-back through NTDS Interface
- Activity LEDs to aid troubleshooting of interface
- Diagnostic messaging over fiber optic media

Specifications	
MIL-STD-197C Interface	Full Compliance to MIL-STD-1397C, Parallel Types A, B, C & H and Serial Type D & E
Fiber optic Interface	Small Form-Factor Pluggable (SFP) Multi-Source Transceiver
Fiber optic Types Supported	Multi-mode (850 nM), Single-mode (1310 nM)
I/O Connections: Rear Panel	Parallel: UYK-7, UYK-43, UYK-44, CP-642, DD78, and DD50 (others on request)
TCP/IP throughput	1.9ms Client to Server to Client loopback cycle time with 100 word packet on dedicated 1Gb Ether link. Does not account for other OS overhead.
Environmental Specifications	
Operating Temperature	0°C to 70°C Operating
Storage Temperature	-40°C to 85°C standard (MIL-STD-810, Method 501 and 502, Procedure I)
Humidity	5 to 95% humidity (non-condensing) (MIL-STD-810, Method 507)
Adapter Mean Time Between Failures	Greater than 200K hours MBF per MIL-HDBK-217, Revision E, 25°C Ground Benign Environment