

MILITARY & DEFENSE



PRINTER INTERFACE UNIT

SPECIAL FEATURES

- Shipboard qualified version available off-the-shelf
- Plug-compatible with existing cables
- Use any USB or LAN Printer
- No periodic maintenance

PRINTER INTERFACE UNIT

The IXI Technology Printer Interface Unit™ (PIU) allows any commercial off-the-shelf printer to be used in place of a militarized PT-540 (or compatible) printer. The PIU connects directly to the existing power and NTDS interface cables of the PT-540 and emulates its interface protocol, providing transparent operation with the host computer. An external printer connects to the PIU via a USB or Ethernet port to provide the hard copy.

Ready for Rugged Shipboard Environment

The PIU has passed U.S. Navy environmental qualification tests including shock, vibration, temperature, humidity, EMI, airborne noise, altitude, and drip. The PIU has been selected to replace the PT-540 Printer in the Aegis Operational Readiness Test System (ORTS). In this application the PIU connects to the ORTS UYK-44 computer over the built-in MIL-STD-1397C NTDS parallel interface.

Easy to Connect

The PIU's input power and data connectors are plug-compatible with the PT-540, allowing existing cables to be connected. Power to the COTS printer is provided using an included cable that transitions from the PIU's circular mil connector to a commercial IEC connector, eliminating the need to run any new cabling at the installation site. Conventional USB-A and Ethernet RJ-45 receptacles and mating plugs are housed in watertight shells providing environmental and mechanical integrity. No special tools are needed for installation.

Configurable

The PIU is shipped from the factory ready to connect without any configuration required. In normal use, the PIU operates without a display or keyboard but they may be connected to the USB port if needed for configuration or maintenance. Virtually any COTS printer can be used with the PIU. The printer can be connected directly to the PIU on either the USB or Ethernet ports or it can be located on a network with appropriate configuration.

Self-Test and Maintenance

The PIU has Self-Test and Form Feed buttons on the front panel. Self-Test sends a one page test pattern to the printer. Form Feed ejects a blank page.

The Ready indicator is green when the PIU is ready for normal operation. If any problem occurs, the Ready indicator flashes red in a repeating pattern that corresponds to the specific error or printer status such as Paper Out, Toner Out, Door Open, etc.

The PIU is fan-less and requires no periodic maintenance. y simply releasing the front panel thumbscrews, the display and electronics chassis rolls out for maintenance.

GENERAL PRODUCT FEATURES

- **NTDS Port** MIL-STD-1397C Parallel Type B
 Software selectable for Type A/B/C/H
 NTDS Receptacles (compatible with):
 Output: MS3124E22-55S
 Input: MS3124E22-55SY

- **Display Port** Standard 15-pin VGA

- **USB Port** USB 2.0 series A receptacle in
 MIL-DTL-38999 series III shell

- **Ethernet Port** One 10/100/1000BASE-T Copper
 RJ-45 in MIL-DTL-38999 Series III shell

- **Input Power** 115 VAC, 60 Hz, Single Phase, 4.8 A 1.1 A
 (PIU) + 3.7 A (printer dependent)
 Connector: MS3472L12-3P

- **Printer Power** 115 VAC, 60 Hz, Single Phase,
 Connector: MS3452L14S-7P

- **Dimensions** 10.0" W x 12.0" D x 4.02" H (PIU only)
 16.84"W x 15.56" D x 15.8" H (
 PIU + mounting brackets and printer base)

- **Weight** 9.25 lbs. (PIU only)
 29.75 lbs. (PIU + mounting brackets and printer base)



Data Display Computer Environmental Specifications

Temperature	MIL-STD-810G Method 501.5 & 502.5 Procedure II Operating: 0 to +50 C	EMI	MIL-STD-461F CE101, CE102, RE101, RE102
	Method 501.5 & 502.5 Procedure I Non-operating: -25 to +65 C	Drip	MIL-STD-810G Method 506.5 Procedure III, 15°
Shock	MIL-S-901D, Grade B, Class I, Type A, Lightweight	Airborne Noise	MIL-STD-1474D, Requirement 5
		Altitude (Transport)	MIL-STD-810G, Method 500.5 Procedure I, 15000 ft.
Vibration	MIL-STD-167-1A Type I 4-25 Hz	Power	MIL-STD-1399 Section 300B, Type I Single Phase Power, Paragraphs 5.2.4, 5.3.1, 5.3.2
Humidity	MIL-STD-810G, Method 507.5 Procedure I (Tailored) 95% (non-condensing), 25 to 40 C		