



# Tactical Datalinks

## Mission Critical Secure Networks

Ultra's Multi Link Processor (MLP) family of products provide enhanced situational awareness and critical data exchange capabilities to airborne, land and maritime users.

A single LRU capable of supporting single or multiple tactical data link operations. Functionality can be tailored to meet customers requirements. Multi link terminal supporting Link-11 and Link-16 operations with built in upgrade paths for Link-22 and IDM.

### Flexible open system architecture

- single or multi link processing
- customer definable capability
- multiple interfaces
- cost effective upgrades

### Link processing software

- multi link software
- intelligent tactical processing
- data forwarding, correlation, fusion
- host for third party software
- UMLI – universal multi link interface (host I/F)

### Legacy interoperability

- forms the basis for the KG-40A replacement
- NSA and NATO approved system
- NTDS and ATDS

### Embedded COMSEC

- Link-11– BID/2200
- Link-22– LLC
- front panel crypto key fill and control

### Embedded modems and net control

- Link-11 Data Terminal Set (DTS)
- Link-22 Modem/Net Control (SPC & SNC)
- improved Data Modem (IDM)
- tactical display and control
- remote control unit



# Ultra can offer leading capabilities for the supply and support of integrated tactical data link systems solutions, providing network enabled/network centric warfare capabilities.

## Link11

- embedded Link-11 application processing, Link-11 crypto and Link-11 DTS

## Link16

- embedded Link-16 application processing

## Link-22

- embedded Link-22 application processing, Link-22 crypto (LLC) and Link-22 SPC

## Benefits

The MLP family of products provides significant benefits, which include:

- small light weight solution
- flexible
- future proof (upgradeable)
- qualified
- low life cycle cost
- low integration costs
- high reliability
- single LRU
- modular architecture
- IP enabled

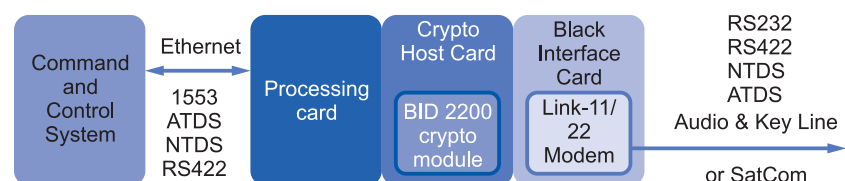
The modular architecture of the MLP means that functionality and capability can be tailored to meet the customer's current and future needs. This can range from Link-11 crypto

only, a complete Link-11 system through to a complete Link-11 and Link-16 capable system – whilst having the ability to be upgraded in the future as required.

## Technical specification

|                                                     |                                                                                                        |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Maximum dimensions:</b>                          | 1/2 ATR short (125mm x 193mm x 319mm)                                                                  |
| <b>Weight:</b>                                      | 12kg (including tray)                                                                                  |
| <b>Storage temperature:</b>                         | -55°C to + 80°C                                                                                        |
| <b>Operating temperature:</b>                       | -40°C to +55°C                                                                                         |
| <b>EMC/EMP:</b>                                     | MIL-STD-461E                                                                                           |
| <b>Reliability &amp; maintainability:</b>           | 7,000hrs MTBF (ARW environment)                                                                        |
| <b>Electrical interfaces:</b>                       | Ethernet or MIL-STD-1553B to mission system<br>Audio to HF/UHF<br>DAMA/MIDS radio (MIL-STD-188-203-1A) |
| <b>Power supply:</b>                                | 115V, 50-400Hz @ 60 Watts                                                                              |
| <b>Message catalogue interoperable with STANAG:</b> | M, J and FJ series messages, 5511, 5516, 5522 and MIL-STD-6011A & MIL-STD-6016                         |

## MLP configuration



## MISSION CRITICAL SECURE NETWORKS AND SYSTEMS

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