



Advanced Fill Device (AFD/A)

The Advanced Fill Device gives signal officers the ability to direct and deploy the distribution of communications information.



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Photos courtesy of the U.S. DoD and ITT Corporation.

Advanced Fill Device (AFD/A)

The AFD/A is used as part of the Communications Management System (CMS) to support planning and distribution of communications information. It supports hierarchical distribution of two separate frequency plans.

- Directs the user to the equipment to be filled
- Supports distribution of a compromise recovery plan
- Supports 10 plan periods

Each AFD/A can distribute communications information for approximately 1,500¹ radios. The AFD/A supports three types of distribution: radio fill, key fill and net fill. It provides additional support for:

- A purge operation allowing sensitive information to be remove from the device
- Over-the-air erasing of the COMSEC keys of captured radios

Interoperable with the following fill equipment

- CMS
- MX-18290 fill devices
- AFD
- PFD

Supports filling the following radios

- SINCGARS Ground RT-1702 Series
- Spearhead
- Harris 5022 Falcon²
- SINCGARS Airborne RT-1478(V)/ARC-201



| | |
|------------------------------------|---|
| Processor | Intel® XScale® PXA270, 520 MHz |
| Operating System | Microsoft® Windows Mobile® Version 5.0, Stored in non-volatile, Secure, Flash |
| Memory (RAM) | 64 MB low-power RAM databases |
| Data Storage | Stores two plans without data loss when the batteries are discharged |
| High Contrast Color Display | 3.5" diagonal (89 mm) 1/4 VGA Backlit LCD readable in direct sunlight |
| Touchscreen | Sealed, resistive, pressure sensitive touchscreen Convenient on board stylus storage |
| Communications Module | Modular, field replaceable |
| Physical | Size: 6.5" length x 3.5" wide x 1.7" thin (165 x 89 x 43 mm) Weight: 17 ounces (482 grams) Magnesium case with elastomer overmold |
| Keyboard | LED backlit keys including a four-way directional button |
| Environmental | MIL-STD-810F: water, humidity, sand and dust, vibration, altitude, shock high temperature, low temperature, temperature shock Waterproof and dustproof, IP67 Shockproof: multiple drops from 5 ft (1.5 m) onto concrete |
| Power | Operates for more than 20 hours on one charge Battery easily changed in the field without tools Power off mode extends battery during long periods of inactivity |

¹ The maximum number of radios is dependent upon the information associated with each radio.

² Contact ITT for the configuration of Harris R/T supported by CMS.

ITT Corporation

Communications Systems

Tactical Communications Systems
1919 West Cook Road
P.O. Box 3700
Fort Wayne, IN 46801-3700, USA
Phone: 260.451.4600
Email: contact.cs@itt.com
www.cs.itt.com



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