

# ACC-188

## Tactical Radio Communications Adapter with Quick Disconnect Radio Cable



### Features

- > Quick disconnect radio cable for maximum compatibility
- > Interoperable - send/receive tactical data communications with various radio models and brands
- > Implements MIL-STD-188-184 Data Waveform
- > Works with PDA-184 Software
- > High-speed data throughput
- > Lightweight, low power design

The popular ACC-188 USB synchronous tactical data communications adapter has been enhanced to include a new quick disconnect radio cable that allows the adapter to be easily configured for the user's target radio. This feature allows maximum communications capabilities with the smallest footprint, lightest weight, and lowest cost possible. Additionally, ACC-188 adapters purchased today will be compatible with future radios simply by adding the appropriate radio cable.

When combined with free PDA-184 software from the Defense Information Systems Agency (DISA), the ACC-188 provides an interoperable, high-speed data communications solution for tactical radios to send and receive IP data including email, text messages, and images. The PDA-184 software provides a graphical user interface (GUI) that allows radio users to transmit and receive a variety of data types at much higher speeds than is possible with comparable, proprietary solutions.

A key advantage of the ACC-188 is that it enables interoperability among the various radio brands and models used by the defense community. The ACC-188 is compatible with any tactical radio that has a synchronous communication port using MIL-STD-188-184.

### Connect to Tactical Radios Including:

- > AN/PRC-117G
- > AN/PRC-117F
- > AN/PRC-152
- > AN/PRC-150
- > AN/PRC-148
- > AN/PSC-5D
- > AN/ARC-210
- > AN/ARC-231



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# High Speed Tactical Data Communications

## Tactical Radio Communications Adapter with Quick Disconnect Radio Cable

The ACC-188 design uses a printed circuit board that is tested and then encapsulated using an over-mold process. This architecture results in a rugged, fully-shielded, battlefield ready product suitable for long life in harsh environments. One end of the cable includes a standard type-A USB connector for use with any USB enabled computer, while the other end connects to the user's tactical radio via the quick disconnect cable.



CA499  
for AN/PRC-117G



CA498  
for AN/PRC-117F



9065-QD  
Tactical Radio Communications Adapter



CA500  
for AN/PRC-152



CA509  
for AN/PRC-148

Quick disconnect radio cables configure the ACC-188 for your tactical radio

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# ACC-188

High-Speed Synchronous  
Serial Solution



**ACC-188**

Shown with PRC-148 connector

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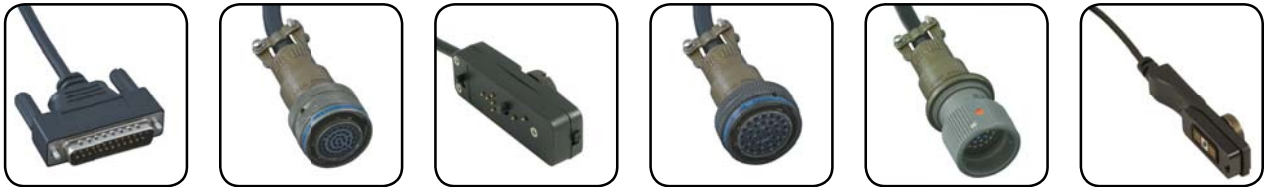
# Interoperable.

## High-Speed Interoperable Data Solution for Tactical Radios

Sealevel Systems has the interoperable, high-speed MIL-STD-188-184 data solution for high-speed tactical data transmission: a USB synchronous radio adapter cable and DISA's free PDA-184 software application. Connect the plug-and-play cable to your computer or handheld device via USB connection and to your tactical radio. It is quick and easy for warfighters to enhance their critical high-speed data communication in the battlefield.

Competitive Advantages:

- > **Interoperable**
- > **Non-proprietary**
- > **Highest data throughput**
- > **Low cost**
- > **More reliable communication**
- > **Rugged**
- > **Light weight**
- > **Easy to install, configure, and use**
- > **Simple single cable solution**
- > **Compatible with SINGARS, EPLRS, MBMMR, MBITR, and JTRS radios**



ACC-188 is available with a variety of radio connector options.



# Rugged.



Sealevel ACC-188 connected to laptop and tactical radio.

## ACC-188 Features

- > Send text messages, email, files, images, GPS data, etc.
- > HF, UHF, VHF, and SATCOM
- > Non-proprietary MIL-STD-188-184 compliant
- > Powerful FPGA programmable architecture
- > Transmits data @ up to 76K via SATCOM
- > Transmission speed automatically adjusts to optimize signal integrity
- > Hot swappable
- > Aluminum chassis with rubber overmold
- > Resistant to liquid, dust, and dirt
- > Heavily shielded against electrical interference
- > Easy to use GUI interface

## Mechanical Specifications

Overall Cable Length: 60"

Plastic Overmold: 6.25" L x 1.75" W x .5" H

Product Weight: 0.88 lbs

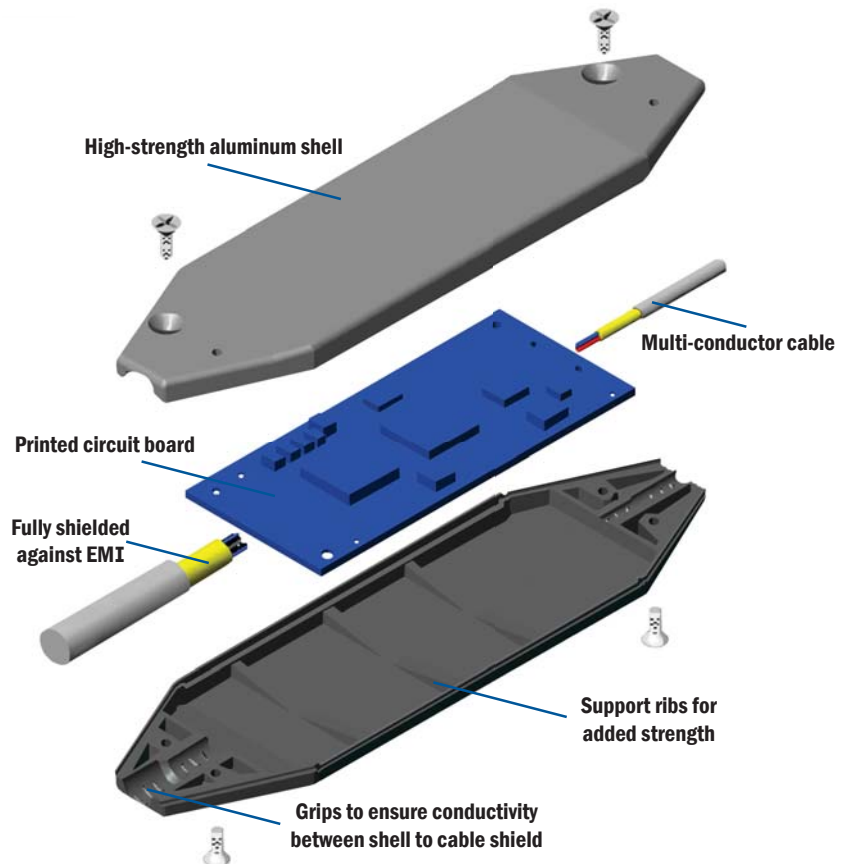
## Electrical Specifications

Supported Protocols:

- MIL-STD-188-184 data waveform
- Synchronous RS-232/422/485/530
- Other protocols available by request

Power Consumption: 0.28W

Power Source: USB powered



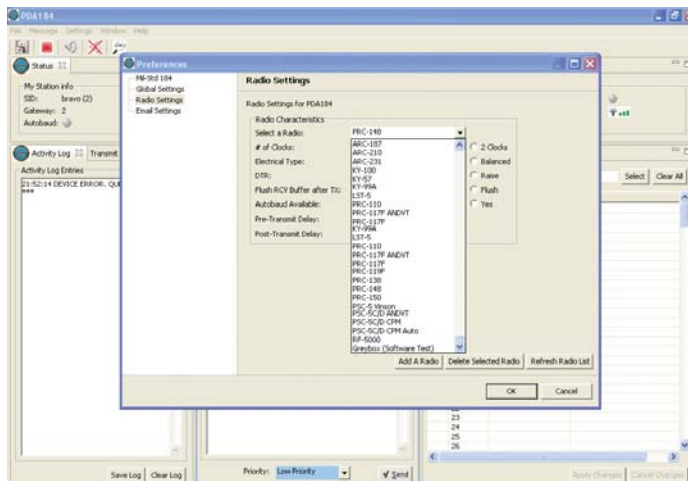
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## Easy to install software.

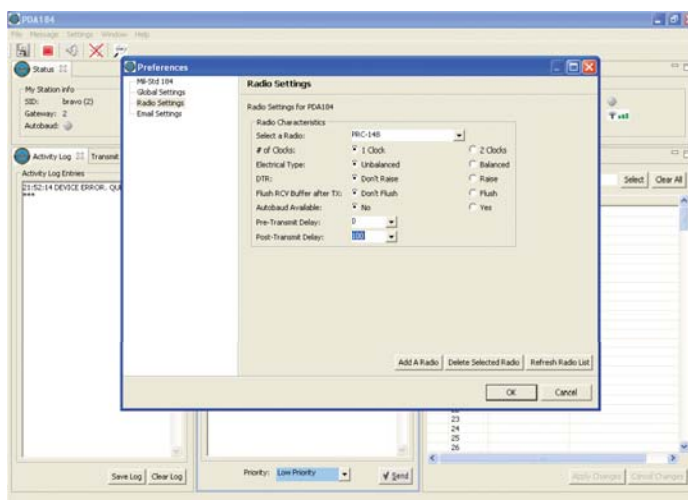
The PDA-184 software is government-developed, government-owned, and is available from DISA as part of this total solution.<sup>1</sup> PDA-184 provides a Graphical User Interface (GUI) that allows radio users to transmit and receive a variety of data types at much higher speeds than is possible with comparable proprietary solutions. The implemented Data Control (DC) waveform enables more reliable data communication by providing data compression, packet communications, and adaptive error-correction processing of user data to allow high-throughput and reliable data transfer even over noisy communication channels.

- Developed and supported by DISA
- Easy to configure GUI
- Transmits and receives data at much higher speeds than with comparable proprietary solutions currently available
- Delivers reliable communication via:
  - Data compression
  - Packet communications
  - Adaptive error correction
- Provides reliable high-throughput data transfer over noisy communication channels
- Designed for use with HF, UHF, VHF, and SATCOM radios and networks
- Versatile enough to be applied to data communication networks that use other wired or wireless transmission media
- Innovative link layer software design for speedy customization
- Quick Installation
  - Few simple steps
  - Automatically installs the necessary files and programs to the target disk

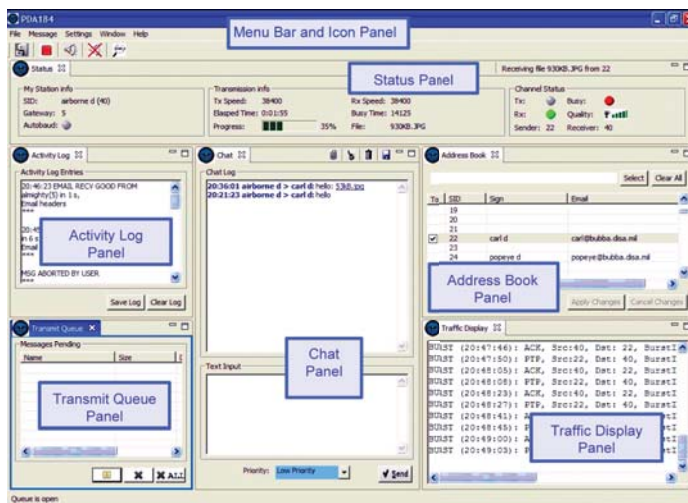
## Quick Installation



## Simple Configuration



## Easy-to-use Interface



<sup>1</sup>For details on how to obtain your copy of DISA's PDA-184 application, visit DISA's website at: <http://www.disa.mil/Mission-Support/Command-and-Control/PDA-184>

# Synchronous Serial Solutions

Sealevel Systems, founded in 1986 and based in Liberty, SC, is an American-owned, small business manufacturer of serial communications, digital I/O and industrial computers. Sealevel currently offers over 300 standard RS-232, RS-422, and RS-485 serial and digital I/O devices for multiple interfaces including USB, Ethernet, PCI, PC/104, PCMCIA, ISA, and serial converters.

With over 20 years experience producing American-made products for military, government, and commercial customers, our forte is using in-house engineering skills to create custom adaptations of our COTS product line for military and government projects.

Sealevel has consistently provided innovative hardware and software products enabling computer connectivity and control to every major U.S. and Allied nations military contractor. From custom board designs to creating platform products, our products are utilized by organizations such as Northrop Grumman, Raytheon, BAE, Boeing, L3, General Dynamics, SPAWAR, NAVAIR and SOCOM.

Our commitment to customer satisfaction is expressed by our ISO 9001:2000 certification and the lifetime warranty that is standard with all Sealevel manufactured I/O products.

**Proud to be American owned.**  
**Committed to American made.**  
**Honored to have 20+ years serving the military.**



**PCI & Low Profile PCI**  
 Items 5402 and 5104 shown



**PC/104 & PCMCIA**  
 Items 3514 and 3612 shown



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