

Palladium™ Digital Video Features

The Palladium Series of digital video transmitters provides exceptional video quality in high multipath environments. They are ideal for use inside buildings, in urban areas, and other applications where multipath would cause video tearing or breakup in analog signals.

All Palladium Series transmitters are designed for 2.5 MHz channel spacing and use approximately 400 carriers to transmit video, two audio channels, and a data channel. Transmitters may be located on adjacent channels without a guard band. AES encryption ensures secure communications.

The Pd-RX-Board receiver is remarkably small, integrating all the electronics required for RF reception, MPEG 2 decoding, and COFDM demodulation. The standard system operates at 2.5 MHz channel spacing with approximately 400 carriers.

The Palladium series of receivers have been designed for repackaging into a variety of housings, such as operator control units for UGV/UAV's, remote video terminals, briefcase surveillance systems and other systems where higher levels of product integration are desirable. Offered as a board level assembly, the first stage RF down converters are provided separately from the main receiver board affording greater flexibility in packaging.

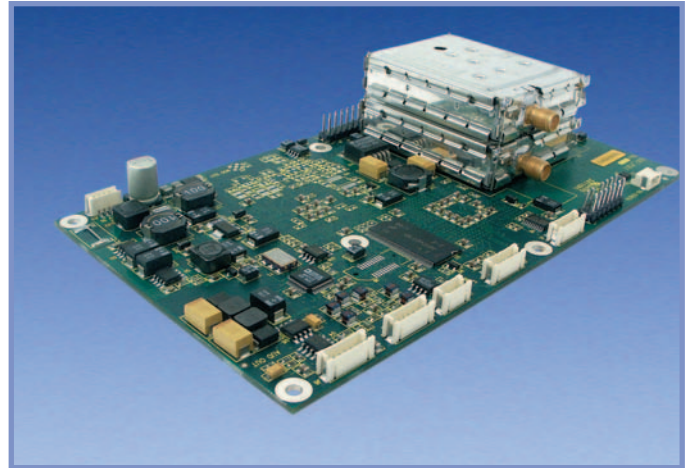
DTC's engineering staff of 35 professionals can accommodate changes to board layout to provide fit, form and/or function capability in various OEM applications.

Features

- ▲ NARROW BANDWIDTH – 2.5 MHz SUBCHANNELS
- ▲ LINK LATENCY AS LOW AS 53Ms – LOWEST IN CLASS
- ▲ LOWEST POWER CONSUMPTION IN CLASS
- ▲ SMALLEST SIZE IN CLASS
- ▲ AES ENCRYPTION – 128/256



Packaged Palladium Digital Video Receiver



Palladium Digital Video OEM Receiver

- ▲ FORWARD ERROR CORRECTION
- ▲ 30 FPS FULL MOTION VIDEO
- ▲ HIGH RESOLUTION SDV DIGITAL VIDEO
- ▲ FREQUENCY BANDS FROM 1150 – 5000 MHz
- ▲ SERIAL DATA CHANNEL UP TO 115KBaud HALF DUPLEX
- ▲ REVERSE SERIAL DATA & AUDIO CHANNEL OPTIONS
- ▲ DUAL SPACE DIVERSITY RX WITH MAXIMAL RATIO COMBINING
- ▲ EXCEPTIONAL RX SENSITIVITY < -100dBm (QPSK, 2.5 MHz)
- ▲ IP DISTRIBUTION OPTION FROM RX TO LAN
- ▲ USER PROGRAMMING & CONFIGURATION

