

XPDK-S Super Triad™ Receiver

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The XPDK-300/500 diversity receivers offer optimum capability to overcome picture breakup and color distortion in applications where the transmitter or receiver are in motion. They can be used with any transmitter within their operating band set to the same frequency and deviation.

The XPDK-S operates by using multiple receivers and antennas to look at and evaluate a single transmitted signal. The theory is that one of the arriving signals will be better than the others. The best signal will be selected and automatically switched to at over 15,725 times per second. In addition, antennas may be routinely mounted 100' from the receiver rack, enabling the agent to position the antenna around obstructions.

The XPDK-S series combines either three or five receivers in a standard 19" rack, and is ideal for command post or surveillance van mounting.

Multiple camera systems are supported in the MegaCam™ configuration, shown in upper right. Antennas are often shared between rack receivers by using customized antennas splitters.

Features

- ▲ Designed for rack mounting in surveillance van or camper top
- ▲ Multiple receiver architecture, either 3 or 5 receivers installed
- ▲ Automatic receiver switching during horizontal interval
- ▲ DTC proprietary VideoVoter™ logic board
- ▲ DTC's circularly polarized antennas minimize multipath
- ▲ Up to 10 factory programmable channels switch selectable
- ▲ Antennas may be mounted up to 100' away
- ▲ Each receiver has its own RSSI display
- ▲ Each receiver may be turned On/Off
- ▲ Available in 1700 to 1850 MHz, 2200 to 2300 or 2400 to 2500 MHz bands
- ▲ LCD channel display
- ▲ Stereo audio subcarriers

Ordering Information

- ▲ XPDK-300-S, three receivers installed, rack unit only
- ▲ XPDK-400-S, four receivers installed, rack unit only
- ▲ XPDK-500-S, five receivers installed, rack unit only
- ▲ Select up to seven crystal controlled frequencies
- ▲ Select up to two audio subcarriers

Add "ENC" to any of the model numbers for Video Encryption

Add "ENC-AV" for Audio & Video Encryption



FCC TYPE: PART 15, SUBPART B

Specifications

Front Panel-Main Control

Control Group	Two position power Switch, illuminated on
Channel Select	Ten position thumb wheel
Channel Select Indicator	LCD 5 digit display

Front Panel-Receiver Segmented Area

Receiver Activated Switch	Two position On/Off, illuminated on
Receiver LEDs	10 LED array used for signal strength each receiver
Receiver "Selected" LED	Green LED active when receiver signal is selected for video

Rear Panel

Power Input	XLR-4 pin, male
Audio Left	XLR-3 pin, male
Audio Right	XLR-3 pin, male
Video	BNC, female
Circuit Breaker	5 Amps
Antenna Connectors	TNC, female (S)
RF/DC Integrated Active Antenna	DC power provided to power remote antenna on single cable

Audio

Audio Sub-carrier	6.0 and 6.5 MHz standard, others optional
Audio Frequency Response	100 Hz to 15 KHz
Total Harmonic Distortion	<2.0%
Audio Impedance	600 ohms

Video

Frequency Ranges	1750 to 1850 MHz, standard 2200 to 2300 MHz standard 2400 to 2500 MHz standard
Signal Formats	NTSC, PAL
Modulation Bandwidth	Wideband FM
Video Output	I V p-p
Video Deviation	±4.0 MHz standard, options available
Automatic Gain Control	Yes

Electrical

Input Voltage	12 to 32 VDC
Input Current	300 mA (each RX)
R-F Input Impedance	50 ohms/TNC connector
Diversity System	3 RX minimum, 5 RX max
Dimensions	16.75" L x 14" W x 1.75" D

- ▲ Call for availability

