

Features

- Standardized Interface**
All **TRADO Series Radios** utilize the same software interface reducing training time, reducing configuration time and increasing configuration capabilities.
- Router Functions**
TRADO Series Radios can be configured as feature rich Routers, Access Points, Repeaters, Client Premise Equipment, Mesh nodes, etc
- Multi-Ethernet Port**
Models available with 1, 3 or 9 x 10/100 Ethernet ports.
- Multi-Radios**
Models available with 1, 2 or 3 internal radios in several licensed and un-licensed bands. (See Wireless Radio Modules Table below)
- Multi-mode**
The **TRADO Series Radios** offer multi-mode operation for maximum configuration and applications. 802.11a/b/g/n, 802.16, Mesh, etc.
- Indoor / Outdoor**
Both indoor and outdoor radio options are available.
- Versatile Power Input**
10-28VDC power input via ¼ inch jack or PoE.
- Weather Resistant**
Waterproof outdoor enclosure allows installation in virtually any environment.
- Energy efficient**
Low power consumption and low heat.
- TDMA Analogous Protocol**
Time Division Multiple Access Protocol manages Point-to-Multi-point data transfer preventing collisions and video jitter.
- Data Security**
40 and 128 bit WEP, WPA, and WPA2 support, AES.
- Layer 2 and Layer 3**
Supports Layer 2(MAC) and Layer 3 networking.

TRADO Series



Overview

WECU Surveillance offers a dynamic line of radios for both indoor and outdoor applications. Radios are available in Single, Dual and Triple radio models covering all licensed and un-licensed frequency bands. The **TRADO Series Radio** line utilizes the latest wireless technology and protocols to provide high throughput jitter free wireless video transmission. The **TRADO Series Radios** provides dynamic configuration options suitable for use in all types of Wi-Fi Security and Video Data applications.

Specifications

Part Number	WETRO564	WETRO565	WETRO566	WETRO567	WETRO568	WETRO569	WETRO570
Antenna connectors	1 x RP-SMA	1 x RP-SMA	6 x RP-SMA	6 x RP-SMA	3 x N-Female	1 x N-Female	1 x N-Female
CPU	300MHz	680MHz	680MHz	680MHz	680MHz	300MHz	680MHz
Data Storage	64MB NAND	64MB NAND	64MB NAND	64MB NAND	64MB NAND	64MB NAND	64MB NAND
Dimensions	180mm x 120mm x 38mm	180mm x 120mm x 38mm	210mm x 108mm x 45mm	210mm x 108mm x 45mm	228mm x 108mm x 38mm	180mm x 125mm x 46mm	180mm x 125mm x 46mm
Environmental	Indoor	Indoor	Indoor	Indoor	Indoor	Outdoor - IP67	Outdoor - IP67
Ethernet	1 x 10/100 w/ Auto MDI/X	1 x 10/100 w/ Auto MDI/X	3 x 10/100 w/ Auto MDI/X	3 x 10/100 w/ Auto MDI/X	9 x 10/100 w/ Auto MDI/X	1 x 10/100 w/ Auto MDI/X, IP66	1 x 10/100 w/ Auto MDI/X, IP66
Functions	CPE	AP / CPE	AP / CPE / Repeater	AP / CPE / Repeater	AP / CPE / Repeater	CPE	AP / CPE
Input Power	14-28VDC PoE, 10-24VDC Power Jack	14-28VDC PoE, 10-24VDC Power Jack	14-28VDC PoE, 10-24VDC Power Jack	14-28VDC PoE, 10-24VDC Power Jack	14-28VDC PoE, 10-24VDC Power Jack	14-28VDC PoE, 10-24VDC Power Jack	14-28VDC PoE, 10-24VDC Power Jack
LEDs	Power, NAND activity	Power, NAND activity	Power, NAND activity	Power, NAND activity	Power, NAND activity	Power, NAND activity	Power, NAND activity
Memory	32MB SDRAM	128MB SDRAM	128MB SDRAM	128MB SDRAM	128MB SDRAM	32MB SDRAM	128MB SDRAM
MiniPCI	1 x MiniPCI Type IIIA/IIIB	1 x MiniPCI Type IIIA/IIIB	3 x MiniPCI Type IIIA/IIIB	3 x MiniPCI Type IIIA/IIIB	3 x MiniPCI Type IIIA/IIIB	1 x MiniPCI Type IIIA/IIIB	1 x MiniPCI Type IIIA/IIIB
Operating Temperature	-30C~70C	-30C~70C	-30C~70C	-30C~70C	-30C~70C	-30C~70C	-30C~70C
Power Consumption	3W max without Wireless Cards	3W max without Wireless Cards	3W max without Wireless Cards	3W max without Wireless Cards	3W max without Wireless Cards	3W max without Wireless Cards	3W max without Wireless Cards
RoHS Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security	40/104bit- WEP, AES- CCM-128bit & TKIP-256bit, WPA/2-PSK, WPA/2-EAP, WDS, DFS, NV2, MAC Authentication	40/104bit- WEP, AES- CCM-128bit & TKIP-256bit, WPA/2-PSK, WPA/2-EAP, WDS, DFS, NV2, MAC Authentication	40/104bit- WEP, AES- CCM-128bit & TKIP-256bit, WPA/2-PSK, WPA/2-EAP, WDS, DFS, NV2, MAC Authentication	40/104bit- WEP, AES- CCM-128bit & TKIP-256bit, WPA/2-PSK, WPA/2-EAP, WDS, DFS, NV2, MAC Authentication	40/104bit- WEP, AES- CCM-128bit & TKIP-256bit, WPA/2-PSK, WPA/2-EAP, WDS, DFS, NV2, MAC Authentication	40/104bit- WEP, AES- CCM-128bit & TKIP-256bit, WPA/2-PSK, WPA/2-EAP, WDS, DFS, NV2, MAC Authentication	40/104bit- WEP, AES- CCM-128bit & TKIP-256bit, WPA/2-PSK, WPA/2-EAP, WDS, DFS, NV2, MAC Authentication
Serial Port	RS-232C, DB9	RS-232C, DB9	RS-232C, DB9	RS-232C, DB9	RS-232C, DB9	RS-232C, DB9	RS-232C, DB9
Storage Temperature	-40C~85C	-40C~85C	-40C~85C	-40C~85C	-40C~85C	-40C~85C	-40C~85C
USB	NA	NA	NA	2 USB 2.0	NA	NA	NA

Our Analogous TDMA (Time Division Multiple Access) protocol is a proprietary wireless protocol for use with Atheros 802.11 wireless chips. When in our Analogous TDMA protocol mode, TDMA media access technology is used instead of CSMA (Carrier Sense Multiple Access) media access technology used in regular 802.11 devices.

Our Analogous TDMA protocol media access technology solves hidden node problems and improves media usage, thus improving throughput and latency, especially in Point-to-Multi-Point networks. The most significant affect is in Wireless Video Transmission Systems where data flow is high and constant. Our Analogous TDMA protocol also adds a level of security to the wireless network, because only compatible wireless hardware configured identically can communicate across our network. This is a level of physical security, in addition to the above listed security protocols. Additional non-published security measures are available in confidence to authorized users.

Wireless Radio Modules

Part Number	WEWC0517	WEWC0803	WEWC0804	WEWC0516	WEWC0571
Certifications	FCC Part 15.247, IC RS210	FCC Part 15.247, IC RS210	FCC Part 15.247, IC RS210	FCC Part 15.247, IC RS210	FCC Part 90Y
Data Rates	802.11a/n - 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps	802.11a/n - 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps	802.11a/n - 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps	802.11b - 11Mbps, 5.5Mbps, 2Mbps, 1Mbps; 802.11a/g-54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps; 802.11n 20Mhz - 1Nss: 65Mbps @ 800G, 72.2Mbps @ 400G (Max.) 2Nss: 130Mbps @ 800G, 144.4Mbps @ 400G (Max.); 40MHz - 1Nss: 135Mbps @ 800G, 150Mbps @ 400G (Max.) 2Nss: 270Mbps @ 800G, 300Mbps @ 400G (Max.) (Actual user throughput up to 200Mbps)	802.11a/n - 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps, 6Mbps
Frequency Range	907-922MHz	3.65-3.675 (US/CA)	3.3-3.8Ghz (Outside US/CA Only)	2.4Ghz & 5Ghz	4.9-6GHz (FCC Certified for 4.9GHz in USA)
Interface	MiniPCI	MiniPCI	MiniPCI	MiniPCI	MiniPCI
MIMO	2 x 2	2 x 2	2 x 2	2 x 2	2 x 2
Operating Temperature	-45C~90C	-40C~70C	-40C~70C	-50C~70C	-40C~70C
RoHS compliance	Yes	Yes	Yes	Yes	Yes
RX Sensitivity	-95 dBm	-97 dBm	-97 dBm	-97 dBm	-96 dBm
Power Consumption	7W Max	7.5W Max	7.5W Max	7W Max	7.5W Max
TDMA	YES (But not typically used)	YES	YES	YES	YES
TX Channel Width	5MHz, 10MHZ, 20MHz	5MHz, 10MHZ, 20MHz	5MHz, 10MHZ, 20MHz, 40MHz	5MHz, 10MHZ, 20MHz, 40MHz	5MHz, 10MHZ, 20MHz, 40MHz
TX Power	700mW (28 dBm)	600mW (28 dBm)	600mW (28 dBm)	320mW (25dBm)	500mW (27dBm)

Chassis Images

