



## Features

*Supports P25 Analog Fixed Station Interface*

*DTMF Tone Call-in*

*RSSI Indicator*

*Auxiliary Input*

*Temperature Sensor*

*COR Input*

*Performs tone, relay, serial, or local radio control*

*Audio interface to either phones, radios, IDEN control stations, voter comparators or other analog audio devices*

*MDC1200 protocol support without external hardware (Model Numbers OUTPOST-2R and SFW-MDC-1)*

*Ethernet interface for connection to VPGate and Consoles*

*Paging Tone Encoder*

*Legacy Tone Remote Console Port*

*In-Cabinet Repeater*

*Connection to Audio Recording Device*

*DC remote control adapter optionally available (Model # OUTPOST-DC-2R)*

*Two serial ports that send and receive RS-232 data to external devices and can use radio driver to control a compatible radio*

# Outpost Radio Controller

Interfacing non-VoIP radios to an Ethernet network for audio transport and remote control, Outpost is a full-featured VoIP Base Station controller designed and manufactured by Avtec.

Avtec's design of Outpost incorporates over 20 years of base station controller experience gained in mission critical airline and railroad operations. This flexible endpoint is easily configured from Scout Manager or a web browser.

Outpost converts audio coming from the phone or radio to packet voice and sends it to the console. In reverse, it takes packet voice from the console, converts it to analog audio, and sends it to the phone or radio.

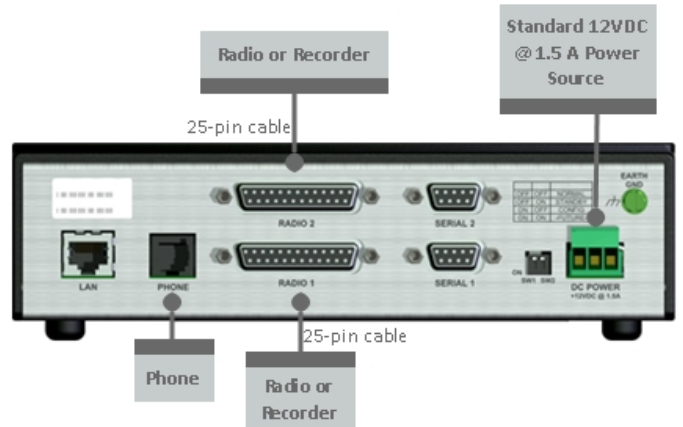
## MDC1200 PROTOCOL SUPPORT

Outpost provides the capability to encode and decode MDC1200 protocol, without requiring external hardware. The MDC1200 feature set is one of two Outpost configuration options: Standard Radio and MDC1200 Radio. The MDC1200 features supported in a Scout system include the following:

- ANI
- Emergency Alert
- Man Down Alert
- Unit-to-Unit calls
- Radio Check
- Stun/Revive
- Call Alert

To enable MDC1200 features and access MDC1200 installation media, Scout users must purchase Outpost model numbers OUTPOST-2R and SFW-MDC-1. MDC1200 requires Scout 2.2 or later.

## CONNECTIONS



## SPECIFICATIONS

### GENERAL

**Length:** 8.34 in (21.18 cm)

**Depth:** 9.63 in (24.46 cm)

**Height:** 2.49 in (6.32 cm)

**Weight:** Approximately 2.27 lbs (1 kg)

**Power:** 11 - 13.5 VDC @ 1.5 A

**Operating Temperature:** Normal operation: -30° to 60°C (ambient), Critical thresholds: -15° and 75°C (internal)

**Note:** A VPGate alarm is sent to Scout Central Distributor when the Outpost records an internal temperature of 75°C. The alarm clears when the internal temperature goes down to 70°C.

**Storage Humidity:** 10% to 70%, non-condensing

**LAN Speed:** 10/100 mbps

**BTU/hr:** 41

### SHELF DIMENSIONS WITH FOUR OUTPOST DEVICES ON A SHELF

**Length:** 19 in (48.26 cm)

**Depth:** 14.43 in (36.65 cm)

**Height:** 5.25 in nominal (13.34 cm)

**Weight (including Shelf):** Approximately 14 lb (6 kg)

### POWER REQUIREMENTS FOR A 35U OUTPOST CABINET

**Inrush current (per power module):** < 40 Amps

**Maximum input current at 100 / 200 VAC (per module):** 12 Amps / 6 Amps

**Number of power modules per cabinet:** Normally 2 modules

## TECHNICAL SPECIFICATIONS

### RADIO TWO WIRE AUDIO INPUT

**Impedance:** 600 ohm balanced

**Input Range:** -30 dBm to +10 dBm

**Frequency Response:** +/- 1 dB 300 - 3400 Hz

**Type:** Transformer-coupled with DC-blocking cap

**Fuse:** 1 Amp

### TWO AND FOUR WIRE AUDIO OUTPUT

**Impedance:** 600 ohm balanced

**Output Level:** -20 dBm to +10 dBm

**Frequency Response:** +/- 1 dB 300 - 3400 Hz

**Distortion:** 1% maximum unweighted

**Noise Floor:** -55 dBm maximum

**Type:** Transformer-coupled with DC-blocking cap

**Fuse:** 1 Amp

### RADIO FOUR WIRE AUDIO INPUT

**Impedance:** 600 / 10K ohm balanced

**WSInput Range:** -30 dBm to +10 dBm

**Frequency Response:** +/- 1 dB 300 - 3400 Hz

**Type:** Transformer-coupled

**Fuse:** 1 Amp

### SINGLE-ENDED AUDIO OUTPUT

**Impedance:** 100 ohm unbalanced

**Output Level:** -20 dBu to +10 dBu

**Frequency Response:** +/- 1 dB 300 - 3400 Hz

**Distortion:** 2% maximum unweighted

**Noise Floor:** -29 dBm maximum

**Type:** DC-blocking cap

**PSTN PORT (RJ11C) AUDIO**

**Impedance:** 600 ohm nominal

**Maximum Input:** +1 dBm (0 dBm nominal)

**Maximum Output:** 0 dBm (not set for PSTN)

**Maximum PSTN Output:** 0 dBm for DTMF, -9 dBm for voice

**Frequency Response:** + / -2 dB 300 – 3400 Hz

**Distortion:** 1% maximum unweighted

**Noise Floor:** -50 dBm maximum

**Type:** DAA

**Fuse:** 1.25 Amps

**COMPLIANCE AND CERTIFICATIONS**

**TELECOM AGENCY APPROVAL**

FCC CFR 47 Part 68 Certification: US:HU3TE01BAV0005000

IC CS03 Certification: IC:1627A-AV0005000

TIA-968-A (including A1, A2, A3, A4, A5), TIA-1096

**SAFETY AGENCY APPROVAL**

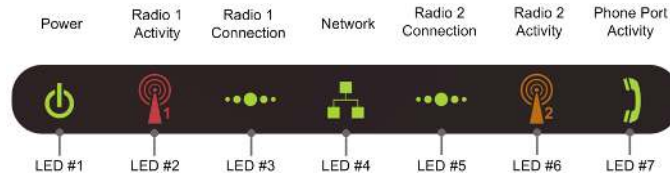
IEC 60950-1:2005 (2nd Edition) and EN 60950-1:2006 including deviations to UL/CSA 60950-1 2nd Edition.

**EMC EMISSIONS**

FCC 47 CFR Part 15 Class A (USA)

ICES-003 Issue 4 Class A Digital Apparatus (Canada)

**LED DESCRIPTIONS**



LED #	INDICATION	COLOR	DESCRIPTION
1	Power / Run Indication (refer to the Updating and Flashing the Data Files section later in this guide for LED indications when flashing the data files)	Green Green Blinking Amber Blinking Red Blinking	Outpost powered up Outpost running Boot Code running Error Codes
2	Radio 1 Activity	Red Yellow Off	Transmitting Receiving audio No activity
3	Radio Port 1 Connectivity	Green Yellow Off	Linked to VPGate Not linked to VPGate Not configured to be a Radio Interface
4	Network LAN Connection	Green Off	Linked to network No link to network
5	Radio Port 2 Connectivity	Green Yellow Off	Linked to VPGate Not linked to VPGate Not configured to be a Radio Interface
6	Radio 2 Activity	Red Yellow Off	Transmitting Receiving audio No activity
7	Phone Port Activity (Dial Backup)	Yellow Yellow Slow Blinking Green Green Fast Blinking Off	Not Linked to VPGate Ringing Connected PTT Phone Port is not enabled
7	Phone Port Activity (IP Phone)	Yellow Green Green & Yellow Blinking Green Slow Blinking Green Fast Blinking Off	Not Linked to VPGate Connected to VPGate Dialing and Ringing Connected PTT Phone Port is not enabled
7	Phone Port Activity (AUX I/O port)	Yellow Yellow blinking at startup Green Off	Not Linked to VPGate Configured as AUX I/O port Connected to VPGate AUX I/O port is not enabled

**MODEL NUMBERS**

MODEL NUMBER	DESCRIPTION
OUTPOST-2R	Outpost VoIP Radio Controller with standard driver.
SFW-MDC-1	Field upgrade existing Outpost VoIP Radio Controller to MDC1200 enabled. Includes a seat license and a MDC1200 Software DVD.

**ACCESSORY MODEL NUMBERS**

MODEL NUMBER	DESCRIPTION
OUTPOST-AC-ADAPT	Power cable for Outpost.