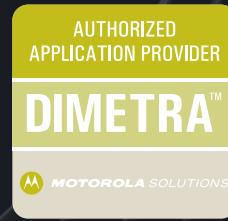




TRBONET
Dispatch Systems



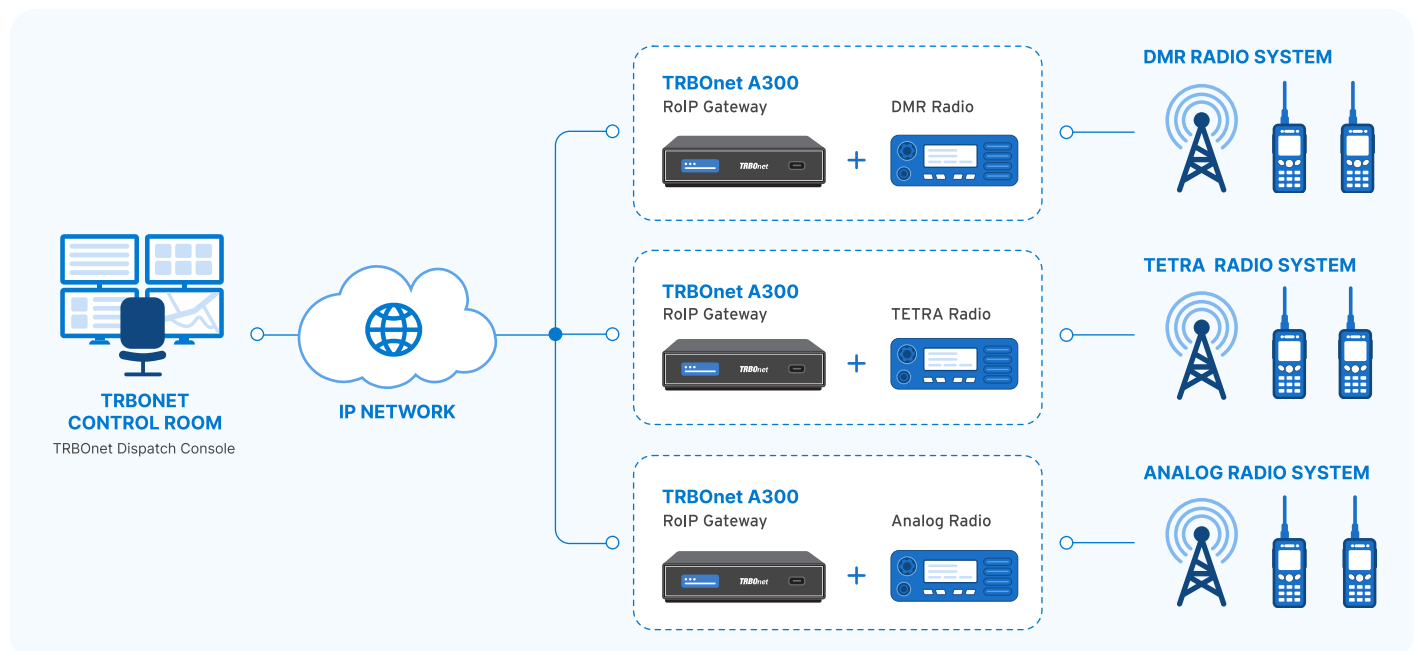
TRBOnet A300

Compact RoIP Gateway for Reliable Radio-to-IP Integration



The TRBOnet A300 is a compact and powerful RoIP (Radio over IP) gateway designed to seamlessly connect radio systems with IP networks. It enables voice and data communication between distributed sites, ensuring reliable and flexible operations across wide geographical areas.

Supporting both MOTOTRBO and selected non-MOTOTRBO radios, the A300 provides interoperability between legacy and modern communication systems, making it an ideal solution for evolving network environments.



Specification

General

Dimensions (H x W x D)
1.2 x 4.6 x 3.9 in. (30 x 120 x 100 mm)

Weight
0.7 lb (320 g)

Operating temperature range
-4 °F to 140 °F (-20 °C to +60 °C)

Storage temperature range
-40 °F to 185 °F (-40 °C to +85 °C)

Ingress protection rating
IP30 (IEC 60529)

Relative humidity, max
85% at +104 °F (+40 °C)

Power input
10–16 V DC, 0.5 A max

Display
Monochrome OLED,
128 x 32 pixels, 0.91 in.

Interfaces
8 I/O, USB-C, RADIO (USB host),
LAN, UART, Audio In/Out

Number of server connections, max
8

Network requirements

Network connection
RJ45, Ethernet 10/100Base-T, 10/100 Mbit/s

Payload per server connection
160 kbps (PCM 8kHz)

Packet delay
< 3,000 ms

Packet jitter
< 1,200 ms

Packet loss
< 2%

Radio connection interfaces

MOTOTRBO
USB host (RADIO)

Non-MOTOTRBO
Audio in, Audio out, PTT out, CSQ detect
input

Inputs/outputs

Output type
Open collector with pull-up resistor

Output current, max
100 mA

Input voltage
configurable 1.8–12 V (maximum 16 V)

Audio input

Nominal level
330 mV RMS

Impedance
10 kΩ

Audio output

Nominal level
330 mV RMS

Impedance
600 Ω

Compatibility

RADIOS

MOTOTRBO radios (require Motorola Generic Option Boards):

DM4000 (EMEA), XPR 5000 (NAR), DGM 5000,
DGM 8000 (LACR), and XiR M8600i, XiR M8600,
XiR M6660 (APAC)

MTM5400/5500 and MXM600 TETRA radios

SUPPORTED FEATURES

- MOTOTRBO digital voice and data communications
- MOTOTRBO analog mode

- Radio IDs
- Group calls
- GPS tracking (LIP, LRRP)
- Text messages
- Voice recording
- Private calls

SLR5500 repeaters in the analog mode

Non-MOTOTRBO radios with the following
interfaces: CSQ Detect, PTT, Audio In, Audio Out

VAD-capable non-MOTOTRBO radios with the
following interfaces: PTT, Audio In, Audio Out

- Voice calls on simplex channels
- Voice recording

Radios and repeaters are sold separately

Sales & Support

For Sales & Support please contact your local TRBOnet dealer or visit www.trbonet.com for a complete list of dealers in your region.

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+44 203 6080598

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KEY ADVANTAGES

✓ **Centralized Control**
Monitor and manage remote radio sites from a single location

✓ **Wide-Area Connectivity**
Connect multiple sites across large geographical regions

✓ **Future-Proof Migration**
Smooth transition from analog to digital radio systems

✓ **High Network Tolerance**
Reliable performance even in high-latency networks (up to 3000 ms)

✓ **Simplified Architecture**
No sound card required for voice routing

✓ **Enhanced Interoperability**
Supports channel patching between different systems

CORE CAPABILITIES

- ✓ Gateway between radio channels and IP networks (voice & data)
- ✓ Up to 8 simultaneous TRBOnet Server connections
- ✓ Support for analog and digital radios
- ✓ Voice Activity Detection (VAD) for radios without CSQ
- ✓ Remote radio control (power, channel, zone)
- ✓ Continuous self-monitoring and diagnostics
- ✓ Real-time alarm notifications to control room operators

