



DIGITAL MICROWAVE RADIOS

Carrier Grade
TDM And IP
Wireless Backhaul -
2.4 / 5.xGHz Series



Increase Capacity and Future-Proof Your Network For Next Generation Applications

With network capacity usage increasing and migrating towards IP based architectures, communication service providers need a high capacity backhaul solution that can support both existing TDM + IP networks, and which can scale to future capacity requirements.

With EXALT wireless digital microwave radios, we provide clients with best-of-breed scalable long distance carrier-grade TDM + IP wireless backhaul solution.

Key Benefits

- Multiple frequency bands
- Multiple configurations
- Variable channel bandwidth
- Flexible user interfaces
- Feature-rich
- Future-proof
- Capacity upgrades through software
- Extremely high efficiency (bits/Hz)

Main Features

- Available for 2.4GHz and 5.xGHz unlicensed bands
- 4x to 16x T1/E1 + 10/100/1000 Base T Ethernet Interface
- Software scalable to more 440Mbps aggregate user capacity
- 8 / 16 / 32 / 64 MHz Channel Bandwidth, with 1MHz tuning resolution
- Latency (T1/E1) 1ms typical
- 128/256-bit AES, 96-bit proprietary encryption
- Resilient transmission
- > 30 Miles (50km) @ 99.999%
- GPS Synchronization supported
- 1+1 Hot Standby capable

DIGITAL MICROWAVE RADIOS



Indoor Version (4xT1/E1 + Eth Ports)



Indoor Version (16xT1/E1 + Eth Ports)



Outdoor Version with integrated Antenna (4xT1/E1 + Eth Ports)



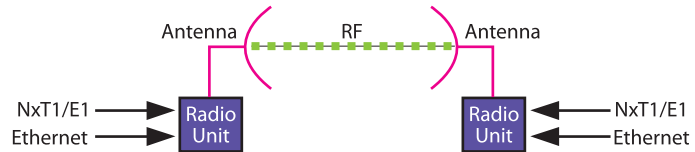
Outdoor Version with integrated Antenna (4xT1/E1 + Eth Ports)



CONSISTEL is a trademark of Consistel Pte. Ltd.
EXALT is a trademark of Exalt Communications Inc.

System Overview

EXALT's EX-2.4 and EX-5 series of high capacity point-to-point wireless backhaul solutions are designed for customers who need long distance and high capacity T1/E1 and IP connectivity in the 2.4GHz or 5.xGHz band.



Applications

Communication Service Providers

- Extension of T1/E1 and IP networks to remote sites and base stations
- Increase T1/E1 and IP capacity of existing networks

Education, Business Users, Government Agencies

- Campus, Inter-building and private network connectivity
- Interconnecting PBX trunk lines

Industrial

- Backhaul of high capacity video monitoring systems
- Shore-to-platform or platform-to-platform connectivity

Product Range

EXALT Ex-2.4 Digital Microwave Series

- Frequency band 2400 ~ 2483.5 MHz
- Output Power +27dBm (QPSK); +24dBm (16QAM)
- Physical Configuration Indoor Unit (IDU)

EXALT Ex-5 Digital Microwave Series

- Frequency band 5250 ~ 5350, 5470 ~ 5725, 5725 ~ 5850 MHz
- Output Power +24dBm (QPSK); +21dBm (16QAM)
- Physical Configuration Indoor Unit (IDU) or Outdoor Unit (ODU)

Typical Performance

- Aggregate User Capacity[^] 13 / 27 / 55 / 110 / 220 Mbps (QPSK)
27 / 55 / 100 / 220 / 440 Mbps (16QAM)
- Latency (T1/E1) 1ms, typical

[^]Maximum capacity depends on radio model and configuration

*Specifications subject to change without notice.

SINGAPORE
Consistel (Singapore) Pte. Ltd.
Main +65 6396 7000 Fax +65 6396 0002

BANGLADESH
Consistel Solutions (Bangladesh) Ltd
Main +880 2 881 7720 Fax +880 2 881 7724

INDONESIA
PT. Consistel Indonesia
Main +62 21 574 9132 Fax +62 21 572 2295

PAKISTAN
Consistel Pakistan (Private) Ltd
Main +92 42 5879 773 Fax +92 42 5879 774

PHILIPPINES
Consistel (Philippines), Inc.
Main +632 910 6193 Fax +632 910 6194

INDIA
Consistel Solutions (India) Private Limited
Main +91 124 430 8300 Fax +91 124 430 8302

THAILAND
Consistel (Thailand) Ltd.
Main +668 9766 9580

MIDDLE EAST
Consistel (Middle East) FZ-LLC
Main +971 4 367 0330 Fax +971 4 390 8618

MALAYSIA
Consistel Solutions Sdn. Bhd.
Main +603 7666 1150 Fax +603 7660 9393

DALLAS (USA)
Consistel Inc.
Main +1 214 556 6580