Advanced millimeter-wave wireless bridge

For more than a decade, Comotech has heavily invested in millimeter-wave R&D technologies. As a result of the investment and more than 20 years of experience in the millimeter-wave R&D technology sector, our product portfolio includes advanced high speed premium class wireless bridges with speeds up to 20 Gbps.

For financial network including high frequency trading (HFT) as well as in lots of medical operational networks, low latency data transmission is a very important requirement. Comotech produces world-class leading ultra-low latency (ULL) radio sub systems and full featured outdoor rated radio solutions with latency of less than 10 ns per radio. These ULL products are leading edge and world record holding systems in terms of network latency that are used by world leading trade organizations like the Chicago Board of Trade (CBOT) and stock exchanges around the world, like New York and London Stock Exchange.

Features

- E-band 70/80GHz point-to-point Wireless Bridge
- 10Gbps (10GE) full-duplex(1+0), 20Gbps Extension (2+0, Dual_10Gbps)
- 256QAM-to-QPSK Hitless ACM (Adaptive Coding and Modulation)
- IEEE1558v2, SyncE
- Low Latency <48 us
- Reliability – up to 99.999%
- Easy ant/ODU assembly at field
- Easy polarization deployment
- Easy azimuth/elevation alignment
- IP66 ODU enclosure
- All weather conditions

Application

- 5G Backhaul, Fronthaul, midhaul Fixed Wireless Access
- P2P extra power up to +33dBm (2W optional)
- High speed financial network
- 5G/6G backhaul
- Hospital/campus application
- Last mile access – extend high speed service
- Surveillance/security

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NTE10GQ

10Gbps E-band Wireless Bridge

Specifications of NTE10GQ

Parameters		Specifications
Frequency Band		71 ~ 76GHz, 81 ~ 86GHz
RF Bandwidth		2000MHz
Modulation Scheme		QPSK, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM Hitless ACM (Adaptive Coding and Modulation)
Interfaces		10G SFP+, 1G SFP, RJ-45
Capacity		Up to 10Gbps
Configuration		1+0, 2+0
TX Power Output		+21dBm
Networking		IEEE1588v2 Precision Time Protocol (PTP) Synchronous Ethernet (SyncE)
Latency		< 48us
Management Access		In-band, Web based GUI, SNMP V2, Telnet
Antenna		1ft (30cm, 45dBi, 0.9°), 2ft (60cm, 51dBi, 0.5°)
Power Supply		DC 48V
Power Consumption		83W
Size	Radio only	300 x 230 x 130mm
	With Antenna	620 x 620 x 490mm@2ft, 340 x 340 x 220mm@1ft
Weight	Radio only	3.3kg (7.2lbs)
	With Antenna	6.7kg (14.7lbs)@2ft, 3.6kg (7.9lbs)@1ft
	Pole Mount Kit	3.2kg (7lbs)
Operating Temperature		Temperature: -40 ~ +65°C
Weather		IP66 / All weather
Vibration		Standard: IEC 60721-3-4, Duration: 30min/axis, random 4M3
Wind load		Survival: 235km/h (65m/s) Operation: 180km/h (50m/s)

* Above specifications are subject to be changed without notice for better performance

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