

The exhibit below will be used at customer lab field environment for testing feature functionality of GX4000 and confirm performance specifications. This environment is necessary to ensure GX4000 functionality to our customers.

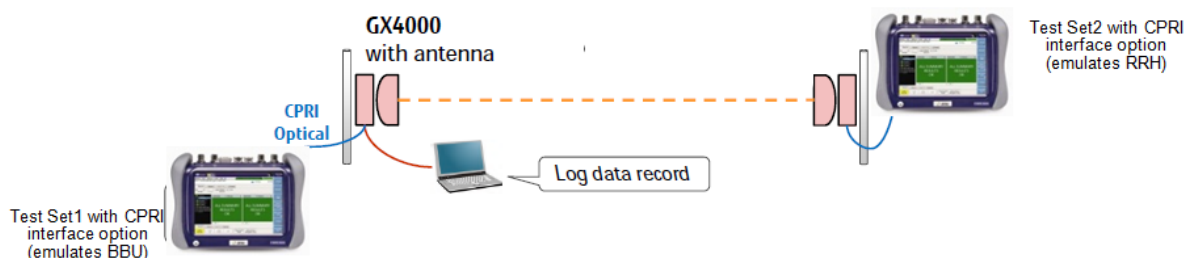
The Fujitsu GX4000 E-Band radio system is a complete All-In-One radio operating in the E-band frequency and feature Fujitsu's Impulse Radio technology. The capacity is multi-Gigabit throughput using the frequency spectrum of 71-76 and 81-86 GHz, FDD, range with channel size of 4,500 MHz and 3.0 Gbps Ethernet through-put. This system requires Line-of-Sight environment for radio transmission path. It supports multiple model types – Gigabit-Ethernet (GE) model and Common Public Radio Interface (CPRI) model. It's maximum TX output power is +10dBm (ATPC, MTPC) and will support spans up to 3km. The GX4000 can be used for building multi-Gigabit wireless networks to deliver various types of content-rich services over a 3G/4G mobile network or fixed broadband network. The GX4000 wireless transport solution is ideal for networks heavily damaged by disasters to provide quick restoration of traffic. Features include the following.

- Wireless innovation based Impulse Radio technology
- 71-76/81-86 GHz (4,500 MHz bandwidth)
- FDD (Frequency Division Duplex)
- 1+0 point-to-point radio
- Lightweight, small size zero footprint ODU design (<4.0 liter and <4.7kg)
- High power amplifier using GaAs Field Effect Transistor (GaAs FET)
- Low power consumption (<30 W/1+0)
- Low latency
- Transmit Power Control (ATPC/MTPC)
- Reed Solomon error correction
- 1-foot or 2-foot parabolic antenna

The following test configuration will be used at the locations below. Two hops of equipment will be used – one hop to transport up to 3.2Gbps Ethernet traffic over-the-air using 1 ft antennas and one hop to transport CPRI Option 3 traffic at a rate of 2.457Gbps over-the-air using 1 ft antennas. Both hops will be installed 1 meter apart based on Site A and Site B information below. Test is to prove GX4000 throughput operation. Test trial to last several weeks.

Site A) 40°23'25.7"N 74°07'50.4"W

Site B) 40°23'38.8N 74°08'03.8"W



Antenna information:

Radio Code	N/A
*Manufacturer	Fujitsu
*Model	GX4000
Model Description	Millimeterwave E-Band Radio
*Emission Designator	4G50X7W
*Power (W)	10dBm
*Stability (%)	See Freq Tolerance tab
*Modulation	Impulse/pulse generator
Default Loading in Channels	
*Composite Data Rate (Mbps)	3000
*Frequency Range Low (MHz)	71000
*Frequency Range High (MHz)	86000
*Threshold (10 ⁻⁶ BER) (dBm)	-54

Antenna Code	N/A	N/A
*Manufacturer	MTI Wireless Edge LTD	MTI Wireless Edge LTD
*Model	MT-799002/W/FU	MT-799001/W/FU
*Diameter (ft)	1	2
*Low Frequency (MHz)	71000	71000
*High Frequency (MHz)	86000	86000
*Mainbeam Gain (dBi)	45dBi	50dBi
3-dB Beamwidth (deg)	1.2 deg (max) FCC 47CFR101.115	0.50 deg (max) FCC 47CFR101.115
15-dB Beamwidth (deg)	FCC 47CFR101.115	

Building Site View:

