TESSCO

Wireless Broadband Technology Matrix

Point-to-Point

	Unlicensed Frequency Bands							Licensed Frequency bands								Performance Characteristics		
Manufacturer	**900Mhz**	**2.4Ghz**	**5.2Ghz**	**5.4Ghz**	**5.7/5.8Ghz**	**24Ghz**	**60Ghz**	**2.5Ghz**	**4.4Ghz**	**4.9Ghz**	**6Ghz**	**11Ghz**	**18Ghz**	**23Ghz**	**80Ghz**	**Max Distance**	**Max Throughput**	**Security/ Encryption**
AirStream P-T-P Series																30 Miles	42Mbps	128-Bit AES (std)
Adtran Tracer 6000 series																30 miles	16 Mbps	3DES
Adtran Bridge (Tracer 5045)																25 Miles	45 Mbps full-duplex	N/A
BridgeWave																5 Miles	1000 Mbps full duplex	256-bit key length AES
Dragonwave Airpair 100																30 Miles	100Mbps	Airpair Authentication
Dragonwave Airpair 200																30 Miles	400Mbps	Airpair Authentication
Dragonwave Horizon																30 Miles	800Mbps	Compact Authentication
Dragonwave Horizon Duo																30 Miles	1.6Gbps	Compact Authentication
Engenius Bridge																		
Motorola Canopy PTP100 Series																10 Miles	14 Mbps	DES (Std)/AES (opt)
Motorola PTP400 Series																60 Miles	43 Mbps	128-Bit AES (opt)
Motorola PTP500 Series																60 Miles	270 Mbps	256-Bit AES (opt)
Motorola PTP600 Series																60 Miles	270 Mbps	256-Bit AES (opt)
Nera Evolution																		
Nera Ethelink-T																30 Miles	800Mbps	N/A
RAD Airmux-200																30 Miles	36Mbps aggregate	N/A
Snaplink																4 Miles	28 Mbps	N/A

Point-to-Multipoint

	Unlicensed Frequency Bands							Licensed Frequency bands								Performance Characteristics		
Manufacturer	**900Mhz**	**2.4Ghz**	**5.2Ghz**	**5.4Ghz**	**5.7/5.8Ghz**	**24Ghz**	**60Ghz**	**2.5Ghz**	**4.4Ghz**	**4.9Ghz**	**6Ghz**	**11Ghz**	**18Ghz**	**23Ghz**	**80Ghz**	**Max Distance**	**Max Throughput**	**Security/ Encryption**
Airstream Base Station																4.5 Miles	42 Mbps	128-Bit AES (std)
Airstream Subscriber Module																4.5 miles	42 Mbps	128-Bit AES (std)
Engenius AP																4.5 Miles	54Mbps	802.1x Authenticator / WPA
Motorola Canopy AP																35 Miles	7.5 Mbps	DES (Std)/AES (opt)
Motorola Canopy SM																35 Miles	7.5 Mbps	DES (Std)/AES (opt)
Motorola Canopy Advantage AP																2 Miles	14 Mbps	DES (Std)/AES (opt)
Motorola Canopy Advantage SM																2 Miles	14 Mbps	DES (Std)/AES (opt)
Motorola Canopy LITE SM																5 Miles	512 Kbps	DES (Std)/AES (opt)

Mesh

	Unlicensed Frequency Bands							Licensed Frequency bands								Performance Characteristics		
Manufacturer	**900Mhz**	**2.4Ghz**	**5.2Ghz**	**5.4Ghz**	**5.7/5.8Ghz**	**24Ghz**	**60Ghz**	**2.5Ghz**	**4.4Ghz**	**4.9Ghz**	**6Ghz**	**11Ghz**	**18Ghz**	**23Ghz**	**80Ghz**	**Max Distance**	**Max Throughput**	**Security/ Encryption**
Firetide																15 miles	30 Mbps	40 bit, 104 bit WEP keys. 128 bit, 256 bit AES keys
Motorola MotoMesh Duo																		
SkyPilot																		
Cisco 1522																		

WiFi/WLAN

	Unlicensed Frequency Bands							Licensed Frequency bands								Performance Characteristics		
Manufacturer	**900Mhz**	**2.4Ghz**	**5.2Ghz**	**5.4Ghz**	**5.7/5.8Ghz**	**24Ghz**	**60Ghz**	**2.5Ghz**	**4.4Ghz**	**4.9Ghz**	**6Ghz**	**11Ghz**	**18Ghz**	**23Ghz**	**80Ghz**	**Max Distance**	**Max Throughput**	**Security/ Encryption**
Engenius																4.5 Miles	54Mbps	802.1x Authenticator / WPA
SMC																		
Alcatel																		

SCADA

	Unlicensed Frequency Bands							Licensed Frequency bands								Performance Characteristics		
Manufacturer	**900Mhz**	**2.4Ghz**	**5.2Ghz**	**5.4Ghz**	**5.7/5.8Ghz**	**24Ghz**	**60Ghz**	**2.5Ghz**	**4.4Ghz**	**4.9Ghz**	**6Ghz**	**11Ghz**	**18Ghz**	**23Ghz**	**80Ghz**	**Max Distance**	**Max Throughput**	**Security/ Encryption**
MDS																		