


Multiband Antennas



| Type Number | Diameter ft (m) | Band | RPE Number(s) | Regulatory Compliance | | | | | Gain, dBi | | | Beamwidth Degrees | Cross Pol. Disc., dB | F/B Ratio dB | VSWR max. (R.L., dB) | |
|---|-----------------|------|---------------|-----------------------|--------|--------|------------|-----------|-----------|----------|------|-------------------|----------------------|--------------|----------------------|--|
| | | | | U.S. FCC 101 | FCC 74 | FCC 78 | ETSI Class | ETSI Gain | Low | Mid-Band | Top | | | | | |
| UMX  Ultra High Performance Multiband 4-Port Antennas Antenna Inputs: See page 92 | | | | | | | | | | | | | | | | |
| 3.4-3.9 GHz and 4.4-5.0 GHz | | | | | | | | | | | | | | | | |
| UMX10-3444 | 10 | 3.4 | 4142 4143 | B | - | - | 3 | 2 | 37.4 | 38.0 | 38.6 | 2.0 | 35 | 68 | 1.10 (26.4) | |
| | (3.0) | 4.4 | 4144 4145 | - | - | - | - | - | 39.7 | 40.2 | 40.7 | 1.6 | 35 | 71 | 1.15 (23.1) | |
| UMX12-3444 | 12 | 3.4 | 4154 4155 | A | - | - | 3 | 2 | 39.0 | 39.6 | 40.2 | 1.7 | 35 | 71 | 1.10 (26.4) | |
| | (3.7) | 4.4 | 4156 4157 | - | - | - | - | - | 41.4 | 41.9 | 42.5 | 1.3 | 35 | 78 | 1.15 (23.1) | |
| UMX15-3444 | 15 | 3.4 | 4166 4167 | A | - | - | 3 | 2 | 40.8 | 41.4 | 42.0 | 1.5 | 35 | 72 | 1.10 (26.4) | |
| | (4.6) | 4.4 | 4168 4169 | - | - | - | 3 | 2 | 42.9 | 43.5 | 44.0 | 1.1 | 35 | 79 | 1.15 (23.1) | |
| 3.4-3.9 GHz and 5.6-6.2 GHz | | | | | | | | | | | | | | | | |
| UMX10-3456 | 10 | 3.4 | 4150 4151 | B | - | - | 2 | 2 | 36.6 | 37.2 | 37.8 | 2.1 | 35 | 70 | 1.15 (23.1) | |
| | (3.0) | 5.6 | 4152 4153 | - | - | - | - | - | 40.7 | 41.2 | 41.3 | 1.2 | 35 | 73 | 1.15 (23.1) | |
| UMX12-3456 | 12 | 3.4 | 4162 4163 | A/B | - | - | 2 | 2 | 38.5 | 39.1 | 39.7 | 1.8 | 35 | 71 | 1.15 (23.1) | |
| | (3.7) | 5.6 | 4164 4165 | - | - | - | - | - | 42.6 | 43.1 | 43.2 | 1.0 | 35 | 76 | 1.15 (23.1) | |
| UMX15-3456 | 15 | 3.4 | 4174 4175 | A | - | - | 3 | 2 | 40.3 | 40.9 | 41.5 | 1.6 | 35 | 74 | 1.15 (23.1) | |
| | (4.6) | 5.6 | 4176 4177 | A | - | - | 3 | 2 | 44.5 | 45.0 | 45.1 | 1.0 | 35 | 77 | 1.15 (23.1) | |
| 3.7-4.2 GHz and 5.925-6.425 GHz | | | | | | | | | | | | | | | | |
| UMX10-459* | 10 | 3.7 | 4102 | A | - | - | 3 | 2 | 38.4 | 39.0 | 39.4 | 1.8 | 30 | 75 | 1.06 (30.7) | |
| | (3.0) | 5.9 | 4104 | - | - | - | - | - | 42.8 | 43.1 | 43.5 | 1.1 | 30 | 80 | 1.06 (30.7) | |
| UMX12-459* | 12 | 3.7 | 4105 | A | - | - | 3 | 2 | 40.7 | 41.3 | 41.5 | 1.5 | 30 | 74 | 1.06 (30.7) | |
| | (3.7) | 5.9 | 4107 | - | - | - | - | - | 44.9 | 45.3 | 45.7 | 0.9 | 30 | 80 | 1.06 (30.7) | |
| 3.58-4.20 GHz and 6.425-7.125 GHz | | | | | | | | | | | | | | | | |
| UMX10-465** | 10 | 3.5 | 4357 4358 | A | A | - | 2 | 2 | 37.4 | 38.1 | 38.7 | 1.8 | 30 | 72 | 1.15 (23.1) | |
| | (3.0) | 6.4 | 4360 4361 | - | - | - | - | - | 42.2 | 42.7 | 42.8 | 1.0 | 30 | 76 | 1.15 (23.1) | |
| UMX12-A465** | 12 | 3.5 | 4108 4109 | A | - | - | 3 | 2 | 40.3 | 40.9 | 41.5 | 1.7 | 30 | 73 | 1.12 (24.9) | |
| | (3.7) | 6.4 | 4110 4111 | - | A | - | 3 | 2 | 44.5 | 45.0 | 45.4 | 0.95 | 30 | 78 | 1.12 (24.9) | |
| 4.40-5.00 GHz and 5.6-6.2 GHz | | | | | | | | | | | | | | | | |
| UMX10-4456 | 10 | 4.4 | 4146 4147 | - | - | - | 2 | 2 | 39.7 | 40.2 | 40.8 | 1.6 | 35 | 75 | 1.15 (23.1) | |
| | (3.0) | 5.6 | 4148 4149 | - | - | - | - | - | 41.8 | 42.2 | 42.6 | 1.2 | 35 | 76 | 1.10 (26.4) | |
| UMX12-4456 | 12 | 4.4 | 4158 4159 | - | - | - | 2/3 | 2 | 41.4 | 41.9 | 42.5 | 1.3 | 35 | 74 | 1.15 (23.1) | |
| | (3.7) | 5.6 | 4160 4161 | - | - | - | - | - | 43.4 | 43.8 | 44.2 | 1.0 | 35 | 77 | 1.10 (26.4) | |
| UMX15-4456 | 15 | 4.4 | 4170 4171 | - | - | - | - | - | 43.1 | 43.7 | 44.2 | 1.2 | 35 | 75 | 1.15 (23.1) | |
| | (4.6) | 5.6 | 4172 4173 | - | - | - | 3 | 2 | 45.0 | 45.4 | 45.8 | 1.0 | 35 | 78 | 1.10 (26.4) | |
| 4.40-5.00 GHz and 5.925-6.425 GHz | | | | | | | | | | | | | | | | |
| UMX8-4459 | 8 | 4.4 | 3310 3311 | - | - | - | - | - | 37.3 | 37.8 | 38.3 | 1.9 | 35 | 68 | 1.15 (23.1) | |
| | (2.4) | 5.9 | 3313 3315 | - | - | - | - | - | 39.8 | 40.0 | 40.7 | 1.4 | 35 | 69 | 1.15 (23.1) | |
| UMX10-4459 | 10 | 4.4 | 3324 3325 | A | - | - | 3 | 2 | 39.7 | 40.2 | 40.7 | 1.6 | 35 | 73 | 1.15 (23.1) | |
| | (3.0) | 5.9 | 3327 3329 | - | - | - | - | - | 42.3 | 42.6 | 42.9 | 1.1 | 35 | 75 | 1.15 (23.1) | |
| UMX12-4459 | 12 | 4.4 | 3330 3331 | A | - | - | 3 | 2 | 41.4 | 42.1 | 42.6 | 1.3 | 35 | 75 | 1.15 (23.1) | |
| | (3.7) | 5.9 | 3332 3333 | - | - | - | - | - | 43.9 | 44.3 | 44.6 | 1.0 | 35 | 77 | 1.15 (23.1) | |
| 4.40-5.00 GHz and 6.425-7.125 GHz | | | | | | | | | | | | | | | | |
| UMX8-4464 | 8 | 4.4 | 4284 4285 | A | A | - | 2 | 2 | 37.3 | 38.0 | 38.4 | 1.9 | 35 | 68 | 1.15 (23.1) | |
| | (2.4) | 6.4 | 4286 4287 | - | - | - | - | - | 40.8 | 41.2 | 41.6 | 1.3 | 35 | 70 | 1.15 (23.1) | |
| UMX10-4464 | 10 | 4.4 | 4288 4289 | A | B | - | 2 | 2 | 39.2 | 39.7 | 40.2 | 1.6 | 35 | 72 | 1.15 (23.1) | |
| | (3.0) | 6.4 | 4290 4291 | - | - | - | - | - | 42.5 | 42.9 | 43.4 | 1.1 | 35 | 74 | 1.15 (23.1) | |
| UMX12-4464 | 12 | 4.4 | 4292 4293 | B | B | - | 2/3 | 2 | 41.1 | 41.6 | 42.2 | 1.3 | 35 | 73 | 1.15 (23.1) | |
| | (3.7) | 6.4 | 4294 4295 | - | - | - | - | - | 44.4 | 44.8 | 45.3 | 0.9 | 35 | 75 | 1.15 (23.1) | |
| UMX15-4464 | 15 | 4.4 | 4296 4297 | A | A | - | 3 | 2 | 43.0 | 43.67 | 44.1 | 1.0 | 35 | 74 | 1.15 (23.1) | |
| | (4.6) | 6.4 | 4298 4299 | - | - | - | - | - | 46.3 | 46.7 | 47.2 | 0.7 | 35 | 76 | 1.15 (23.1) | |
| 6.425-7.125 GHz and 7.725-8.275 GHz | | | | | | | | | | | | | | | | |
| UMX8-6477 | 8 | 6.4 | 4300 4301 | A | A | - | 2/3 | 2 | 41.7 | 42.3 | 42.7 | 1.3 | 35 | 70 | 1.15 (23.1) | |
| | (2.4) | 7.7 | 4302 4303 | - | - | - | - | - | 43.3 | 43.8 | 44.0 | 1.1 | 35 | 73 | 1.15 (23.1) | |
| UMX10-6477 | 10 | 6.4 | 4304 4305 | A | A | - | 2/3 | 2 | 42.8 | 43.4 | 43.8 | 1.0 | 35 | 74 | 1.15 (23.1) | |
| | (3.0) | 7.7 | 4306 4307 | - | - | - | - | - | 44.6 | 44.8 | 45.0 | 0.8 | 35 | 76 | 1.15 (23.1) | |
| UMX12-6477 | 12 | 6.4 | 4308 4309 | A | A | - | 3 | 2 | 44.9 | 45.5 | 45.9 | 0.7 | 35 | 75 | 1.15 (23.1) | |
| | (3.7) | 7.7 | 4310 4311 | - | - | - | - | - | 46.4 | 47.1 | 47.3 | 0.6 | 35 | 77 | 1.15 (23.1) | |
| UMX15-6477 | 15 | 6.4 | 4312 4313 | A | A | - | 3 | 2 | 46.5 | 46.8 | 47.0 | 0.7 | 35 | 76 | 1.15 (23.1) | |
| | (4.6) | 7.7 | 4314 4315 | - | - | - | - | - | 47.9 | 48.2 | 48.5 | 0.6 | 35 | 78 | 1.15 (23.1) | |

Reference ETSI Document EN300833 for 3 to 60 GHz

* 0.5 lb/in² (3.5 kPa) maximum




** 5 lb/in² (35 kPa) maximum

Terrestrial Microwave Antenna System Products





Multiband Antennas

| Type Number | Diameter ft (m) | Band | RPE Number(s) | Regulatory Compliance | | | | | Gain, dBi | | | Beamwidth degrees | Cross Pol. Disc., dB | F/B Ratio dB | VSWR max. (R.L., dB) | |
|---|-----------------|-------------|-------------------|-----------------------|-------------|-------------|------------|-----------|--------------|--------------|--------------|-------------------|----------------------|--------------|----------------------------|--|
| | | | | U.S. FCC 101 | U.S. FCC 74 | U.S. FCC 78 | ETSI Class | ETSI Gain | Low | Mid-Band | Top | | | | | |
| HP  High Performance Multiband 2-Port Antennas (Single Polarized each band, Orthogonal Polarized) Antenna Inputs: See page 92 | | | | | | | | | | | | | | | | |
| 1.85-1.99 GHz and 6.425-7.125 GHz | | | | | | | | | | | | | | | | |
| HP8-186** | 8 (2.4) | 1.8 6.4 | 3960 3961 3962 | A - | A - | - - | 2 - | 2 - | 30.4 41.5 | 30.7 41.9 | 31.0 42.4 | 4.3 1.3 | 28 30 | 51 69 | 1.15 (23.1) 1.10 (26.4) | |
| HP10-186** | 10 (3.0) | 1.8 6.4 | 3963 3964 3965 | A - | A - | - - | 2 - | 2 - | 32.4 42.7 | 32.7 43.0 | 33.0 43.4 | 3.7 1.0 | 28 30 | 54 71 | 1.15 (23.1) 1.10 (26.4) | |
| 4.4-5.0 GHz and 7.725-8.5 GHz | | | | | | | | | | | | | | | | |
| HP8-4477 | 8 (2.4) | 4.4 7.7 | 815 816 | - - | - - | - - | - - | - - | 38.2 42.8 | 38.7 43.1 | 39.3 43.4 | 2.0 1.2 | 35 35 | 64 71 | 1.20 (20.8) 1.15 (23.1) | |
| HP10-4477 | 10 (3.0) | 4.4 7.7 | 811 812 | - - | - - | - - | 2 - | 2 - | 40.3 44.2 | 40.6 44.5 | 41.2 44.7 | 1.6 0.8 | 35 35 | 67 74 | 1.20 (20.8) 1.15 (23.1) | |
| HP12-4477 | 12 (3.7) | 4.4 7.7 | 813 814 | - - | - - | - - | 3 - | 2 - | 42.0 46.4 | 42.4 46.7 | 43.1 46.9 | 1.3 0.7 | 35 35 | 69 78 | 1.20 (20.8) 1.15 (23.1) | |
| 5.925-6.425 GHz and 10.7-11.7 GHz | | | | | | | | | | | | | | | | |
| HP8-611* | 8 (2.4) | 5.9 10.7 | 3038 3040 | A - | - - | - - | 2 - | 2 - | 40.9 44.3 | 41.3 44.7 | 41.6 45.1 | 1.4 0.8 | 35 25 | 65 70 | 1.06 (30.7) 1.10 (26.4) | |
| HP10-611* | 10 (3.0) | 5.9 10.7 | 3049 3050 | A - | - - | - - | 3/2 - | 2 - | 42.7 46.1 | 43.0 45.8 | 43.2 46.2 | 1.1 0.7 | 30 25 | 72 72 | 1.06 (30.7) 1.10 (26.4) | |
| HP12-611* | 12 (3.7) | 5.9 10.7 | 3046 3048 | - - | - - | - - | 3 - | 2 - | 44.3 46.9 | 44.7 47.3 | 45.0 47.7 | 0.9 0.5 | 28 25 | 72 72 | 1.06 (30.7) 1.10 (26.4) | |
| 6.425-7.125 GHz and 10.7-11.7 GHz | | | | | | | | | | | | | | | | |
| HP8-6511* | 8 (2.4) | 6.4 10.7 | 2387 2392 | - - | - - | - - | - - | - - | 41.6 44.3 | 41.9 44.7 | 42.3 45.1 | 1.3 0.8 | 32 25 | 65 70 | 1.06 (30.7) 1.10 (26.4) | |
| P  Standard Multiband 3-Port Antennas (2 GHz Single Polarized, 6 GHz Dual Polarized) Antenna Inputs: See page 92 | | | | | | | | | | | | | | | | |
| 1.85-1.99 GHz and 6.425-7.125 GHz | | | | | | | | | | | | | | | | |
| P8-186** | 8 (2.4) | 1.8 6.4 | 3945 3946 3947 | A - | B - | - - | - - | - - | 30.5 41.6 | 30.8 42.0 | 31.1 42.5 | 4.4 1.3 | 18 30 | 39 49 | 1.15 (23.1) 1.10 (26.4) | |
| P10-186** | 10 (3.0) | 1.8 6.4 | 3950 3951 3952 | A - | A - | - - | - - | - - | 32.5 43.7 | 32.8 43.4 | 33.1 43.8 | 3.7 1.0 | 20 30 | 42 52 | 1.15 (23.1) 1.10 (26.4) | |
| P  Standard Multiband 2-Port Antennas (Both Bands Single Polarized, Orthogonal Polarization) Antenna Inputs: See page 92 | | | | | | | | | | | | | | | | |
| 6.875-7.125 GHz and 12.70-13.25 GHz | | | | | | | | | | | | | | | | |
| P8-6812 | 8 (2.4) | 6.8 12.7 | 1093 1094 | B - | B - | B - | 1 - | 2 - | 42.2 44.6 | 42.4 43.1 | 42.5 42.2 | 1.3 1.1 | 30 15 | 53 54 | 1.10 (26.4) 1.15 (23.1) | |
| P10-6812 | 10 (3.0) | 6.8 12.7 | 1095 1096 | B - | B - | B - | 1 - | 2 - | 42.8 44.7 | 43.0 43.1 | 43.1 40.7 | 1.2 1.1 | 30 10 | 59 60 | 1.10 (26.4) 1.15 (23.1) | |

Reference ETSI Document EN300833 for 3 to 60 GHz

* 5 lb/in² (35 kPa) maximum

** 2 lb/in² (14 kPa) maximum

