

AREDN Node Equipment Specifications

12/1/17

ROUTERS

| Equipment Model | Freq Band | Input Power Watts | Xmit Power dBm | Xmit Power Watts | Antenna Gain dBi | Beam Width -3dB Degrees | Support Yes/ Future | Approx Cost \$ | Rcv Sense dbm |
|-----------------|-----------|-------------------|----------------|------------------|------------------|-------------------------|---------------------|----------------|---------------|
| Ubiquiti | | | | | | | | | |
| AirGrid XM | 2.4 | 3 | 28 | .631 | 16 | 3 | Yes | 55 | |
| | 2.4 | 3 | 28 | .631 | 20 | 3 | Yes | 70 | |
| | 5.8 | 3 | 25 | .316 | 23 | 3 | Yes | 60 | |
| | 5.8 | 3 | 25 | .316 | 27 | 3 | Yes | 70 | |
| AirGrid XW | 5.8 | 3 | 25 | .316 | 23 | 3 | Future | 70 | |
| | | | | | | | | | |
| AirRouter | 2.4 | UNK | UNK | UNK | | 360 | Yes | 37 | |
| AirRouter HP | 2.4 | UNK | UNK | UNK | | 360 | Yes | 52 | |
| | | | | | | | | | |
| Bullet | 2.4 | 7 | 28 | .631 | NA | NA | Yes | 80 | |
| | 5.8 | 6 | 25 | .316 | NA | NA | Yes | 95 | |
| Bullet Titanium | 2.4 | 7 | 28 | .631 | NA | NA | Yes | 120 | |
| | 5.8 | 6 | 25 | .316 | NA | NA | Yes | 115 | |
| | | | | | | | | | |
| Nanobeam XW | 5.8 | 6 | 24 | .250 | 16 | 3 | Yes | 70 | |
| | 5.8 | 6 | 24 | .250 | 19 | 3 | Yes | 90 | |
| | | | | | | | | | |
| NanoBridge | 900 | 6.5 | 28 | .631 | 11 | 3 | Yes | 160 | |
| | 2.4 | 5.5 | 23 | .195 | 18 | 3 | Yes | 90 | |
| | 3.4 | 8 | 25 | .316 | 22 | 3 | Yes | 175 | |
| | 5.8 | UNK | UNK | UNK | 22 | 3 | Yes | 100 | |
| | 5.8 | UNK | UNK | UNK | 25 | 3 | Yes | 100 | |
| | | | | | | | | | |
| NanoStation XM | 2.4 | 8 | 28 | .631 | 11 | 53 | Yes | 90 | -83 |
| | 3.4 | 8 | 25 | .316 | 13 | 60 | Yes | 90 | -94 |
| | 5.8 | 8 | 27 | .501 | 15 | 43 | Yes | 90 | -94 |

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|------------------------|------------------|--------------------------|-----------------------|-------------------------|-------------------------|--------------------------------|----------------------------|-----------------------|----------------------|
| NanoStation XW | 5.8 | 8 | 27 | .501 | 15 | 43 | Yes | 90 | |
| | | | | | | | | | |
| NanoStation Loco XM | 900 | 6.5 | 28 | .631 | 8 | 60 | Yes | 130 | -96 |
| | 2.4 | 5.5 | 23 | .195 | 8 | 60 | Yes | 50 | -83 |
| | 5.8 | 5.5 | 23 | .195 | 13 | 45 | Yes | 50 | -83 |
| NanoStation Loco XW | 5.8 | 5.5 | 23 | .195 | 13 | 45 | Yes | 50 | |
| | | | | | | | | | |
| PicoStation | 2.4 | 8 | 28 | .631 | 5 | 360 | Yes | 79 | |
| | | | | | | | | | |
| PowerBeam | 2.4 | 6 | 28 | .631 | 18 | 3 | Yes | 100 | |
| | 5.8 | 6 | 26 | .400 | 22 | 3 | Yes | 180 | |
| | 5.8 | 8 | 26 | .400 | 25 | 3 | Yes | 100 | |
| | | | | | | | | | |
| Rocket XM | 900 | 6.5 | 28 | .631 | NA | NA | Yes | 180 | -96 |
| | 2.4 | 17 | 30 | 1 | NA | NA | Yes | 81 | -97 |
| | 3.4 | 17 | 30 | 1 | NA | NA | Yes | 85 | -94 |
| | 5.8 | 12 | 26 | .4 | NA | NA | Yes | 140 | -94 |
| Rocket XW | 5.8 | 12 | 26 | .4 | NA | NA | Yes | 140 | |
| | | | | | | | | | |
| TP-Link | | | | | | | | | |
| | | | | | | | | | |
| CPE | 2.4 | UNK | 27 | .500 | 9 | UNK | Yes | 60 | |
| | 2.4 | UNK | 30 | 1 | 12 | UNK | Yes | UNK | |
| | 5.8 | UNK | 23 | .195 | 13 | UNK | Yes | 70 | |
| | 5.8 | UNK | 27 | .500 | 27 | UNK | Yes | UNK | |
| | | | | | | | | | |
| Mikrotik | | | | | | | | | |
| | | | | | | | | | |
| hAP AC | 2.4 | | | | | | Yes | 45 | |
| (dual band) | 5.8 | | | | | | Future | | |

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|------------------------|------------------|--------------------------|-----------------------|-------------------------|-------------------------|--------------------------------|----------------------------|-----------------------|----------------------|
| | | | | | | | | | |
| Basebox2 | 2.4 | | 30 | 1 | NA | NA | Yes | | |
| Basebox 5 | 5.8 | | 30 | 1 | NA | NA | Yes | | |
| | | | | | | | | | |
| LHG | 5.8 | | | | | | Future | | |
| LHG HP XL | 5.8 | | | | | | Future | | |

UNK Unknown

NA Not Applicable

Equipment marked 'Future' may become 'Unsupported' at a future date.

ANTENNAS

| Equipment Model | Freq Band | Type | Gain dBi | Beam Width -3dB | Routers | Approx. Cost \$ | Note |
|-----------------|-----------|-----------|----------------|-----------------|---------|-----------------|----------|
| AIR802 | | | | | | | |
| | | | | | | | |
| Altelix | 2.4 | Vert | 12 | 360 | | 50 | |
| | 5.8 | Vert | 11 | 360 | | 50 | |
| | | | | | | | |
| ANOM245XM-NF | 2.4/5.8 | Vert | 3.5/5.1 | 360 | Bullet | 45 | |
| | | | | | | | |
| TP-Link | | | | | | | |
| | | | | | | | |
| TL-ANT2412D | 2.4 | Vert | 12 | 360 | Bullet | 40 | |
| TL-ANT2415D | 2.4 | Vert | 15 | 360 | Bullet | 50 | |
| TL-ANT2406A | 2.4 | Tabletop | 6 | UNK | Bullet | 25 | SMA |
| TL-ANT2409B | 2.4 | Patch | 9 | UNK | Bullet | 21 | SMA |
| TL-ANT2414B | 2.4 | Patch | 14 | UNK | Bullet | 54 | SMA |
| TL-ANT2424B | 2.4 | Parabolic | 24 | UNK | Bullet | 50 | SMA |
| | | | | | | | |
| TRENDnet | | | | | | | |
| | | | | | | | |
| TEW-AO57 | 2.4/5.8 | Vert | 4/7 | 360 | Bullet | 29 | 2 pieces |
| | | | | | | | |
| Ubiquiti | | | | | | | |
| | | | | | | | |
| AMY-9M16 | 900 | Yagi | 16 | UNK | Rocket | 186 | |
| AMO-2G10 | 2.4 | Vert | 10 | 360 | Bullet | 155 | |
| AMO-2G13 | 2.4 | Vert | 13 | 360 | Bullet | 220 | |
| | | | | | | | |
| RD-2G-24 | 2.4 | Dish | 24 | 3 | Rocket | 167 | Tripod |
| AM-V2G-Ti | 2.4 | Sector | 17 16 15 | 60 90 120 | Rocket | 270 | Variable |

| Equipment Model | Freq Band | Type | Gain dBi | Beam Width -3dB | Routers | Approx. Cost \$ | Note |
|------------------------|------------------|-------------|-----------------|------------------------|----------------|------------------------|-------------|
| AM-2G15 | 2.4 | Sector | 15 | 120 | Rocket | 160 | |
| RD-2G24 | 2.4 | Dish | 24 | 3 | Rocket | 180 | |
| AMO-3G12 | 3.4 | Vert | 12 | 360 | Rocket | 143 | |
| AM-3G18 | 3.4 | Sector | 18 | 120 | Rocket | 172 | |
| RD-3G26 | 3.4 | Dish | 26 | 3 | Rocket | 208 | Tripod |
| AMO-5G10 | 5.8 | Vert | 13 | 360 | Rocket | 112 | |
| AMO-5G13 | 5.8 | Vert | 13 | 360 | Rocket | 140 | |
| AM-5AC21-60 | 5.8 | Sector | 21 | 60 | Rocket | 180 | |
| AM-5AC22-45 | 5.8 | Sector | 22 | 45 | Rocket | 180 | |
| AM-5G20 | 5.8 | Sector | 20 | 90 | Rocket | 120 | |
| AM-5G19 | 5.8 | Sector | 19 | 120 | Rocket | 120 | |
| AM-5G16 | 5.8 | Sector | 16 | 120 | Rocket | 71 | |
| AM-5G17 | 5.8 | Sector | 17 | 90 | Rocket | 71 | |
| AM-V5G-Ti | 5.8 | Sector | 21 20 19 | 60 90 120 | Rocket | 210 | Variable |
| RD-5G31-AC | 5.8 | Dish | 31 | 3 | Rocket | 310 | Radome |
| RD-5G30 | 5.8 | Dish | 30 | 3 | Rocket | 120 | Tripod |
| RD-5G34 | 5.8 | Dish | 34 | 3 | Rocket | 275 | Tripod |

UNK Unknown
 NA Not Applicable
 Variable Selectable beamwidth
 Tripod Tripod included