

# XTREMERange3

## TECHNICAL SPECIFICATIONS

**Frequency Freedom™**



Think Outside the Band™

Tested with and Optimized for



Mikrotik is a trademark of Mikrotiks SIA, Latvia



### CARD INFORMATION

|                          |   |
|--------------------------|---|
| Chipset                  | Atheros, 6th Generation, AR5414 with SuperA/Turbo Support       |
| Radio Operation          | 802.11 Based MAC/PHY  |
| Interface                | 32-bit mini-PCI Type IIIA                                       |
| Operation Voltage        | 3.3VDC  |
| Antenna Ports            | Single MMCX   |
| Temperature Range        | -45 to +85C (extended temp version up to +95C)                  |
| Security                 | WPA, WPA2, AES-CCM & TKIP Encryption, 802.1x, 64/128/152bit WEP |
| Data Rates               | 6Mbps, 9Mbps, 12Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps            |
| TX Channel Width Support | 5MHz / 10MHz / 20MHz / 40MHz                                    |
| RoHS Compliance          | YES   |

### FREQUENCY RANGE (VERSION DEPENDENT)

|                        |                       |                     |
|------------------------|-----------------------|---------------------|
| XR3-103                | XR3-105               | XR3-107             |
| <b>3.30GHz-3.45GHz</b> | <b>3.475-3.625GHz</b> | <b>3.60-3.75GHz</b> |

### RADIO PERFORMANCE

| TX SPECIFICATIONS |          |           |           | RX SPECIFICATIONS |          |             |           |
|-------------------|----------|-----------|-----------|-------------------|----------|-------------|-----------|
|                   | DataRate | Avg.Power | Tolerance |                   | DataRate | Sensitivity | Tolerance |
| 802.11a OFDM      | 6Mbps    | 25 dBm    | +/-1.5dB  | 802.11a OFDM      | 6Mbps    | -92 dBm     | +/-1.5dB  |
|                   | 9Mbps    | 25 dBm    | +/-1.5dB  |                   | 9Mbps    | -90 dBm     | +/-1.5dB  |
|                   | 12Mbps   | 25 dBm    | +/-1.5dB  |                   | 12Mbps   | -89 dBm     | +/-1.5dB  |
|                   | 18Mbps   | 25 dBm    | +/-1.5dB  |                   | 18Mbps   | -88 dBm     | +/-1.5dB  |
|                   | 24Mbps   | 25 dBm    | +/-1.5dB  |                   | 24Mbps   | -84 dBm     | +/-1.5dB  |
|                   | 36Mbps   | 21 dBm    | +/-1.5dB  |                   | 36Mbps   | -81 dBm     | +/-1.5dB  |
|                   | 48Mbps   | 19 dBm    | +/-1.5dB  |                   | 48Mbps   | -75 dBm     | +/-1.5dB  |
|                   | 54Mbps   | 18 dBm    | +/-1.5dB  |                   | 54Mbps   | -73 dBm     | +/-1.5dB  |

### ADJUSTABLE CHANNEL SIZE SUPPORT (Increase Channel Capacity or Increase Throughput)

|      |       |       |               |
|------|-------|-------|---------------|
| 5MHz | 10MHz | 20MHz | 40MHz (Turbo) |
|------|-------|-------|---------------|

### CURRENT CONSUMPTION INFORMATION

| TX CURRENT CONSUMPTION |          |         |           | RX CURRENT CONSUMPTION |          |         |           |
|------------------------|----------|---------|-----------|------------------------|----------|---------|-----------|
|                        | DataRate | Current | Tolerance |                        | DataRate | Current | Tolerance |
| 802.11a OFDM           | 6Mbps    | 1.20 A  | +/-100 mA | 802.11a OFDM           | 6Mbps    | 400 mA  | +/-100 mA |
|                        | 9Mbps    | 1.20 A  | +/-100 mA |                        | 9Mbps    | 400 mA  | +/-100 mA |
|                        | 12Mbps   | 1.20 A  | +/-100 mA |                        | 12Mbps   | 400 mA  | +/-100 mA |
|                        | 18Mbps   | 1.20 A  | +/-100 mA |                        | 18Mbps   | 400 mA  | +/-100 mA |
|                        | 24Mbps   | 1.20 A  | +/-100 mA |                        | 24Mbps   | 400 mA  | +/-100 mA |
|                        | 36Mbps   | 1.00 A  | +/-100 mA |                        | 36Mbps   | 400 mA  | +/-100 mA |
|                        | 48Mbps   | 0.80 A  | +/-100 mA |                        | 48Mbps   | 400 mA  | +/-100 mA |
|                        | 54Mbps   | 0.70 A  | +/-100 mA |                        | 54Mbps   | 400 mA  | +/-100 mA |

### RANGE PERFORMANCE

|                              |                 |
|------------------------------|-----------------|
| Indoor (Antenna Dependent):  | Up to 150meters |
| Outdoor (Antenna Dependent): | Over 50km       |

### DRIVER INFORMATION

|                                  |  |
|----------------------------------|--|
| Operating System Support         | Linux MADWIFI, WindowsXP, Windows2000                              |
| Advanced Mobility / QuickHandoff | WindowsXP/2000 Utility with Enhanced Mobility Driver from Ubiquiti |
| Cisco Support                    | CCX 4.0 Supported Driver/Utility also available from Ubiquiti      |

For help with MADWIFI or other Special Driver Support, Please e-mail support@ubnt.com