**PROXIM** wireless

The Tsunami™ Mini 8100 series is a family of highly integrated full-featured Proxim's flagship Tsunami™ Multi-Point Subscriber Units in a compact form factor, which provide unmatched ease of integration for OEMs to rapidly enable outdoor wireless connectivity to their products. These FIPS 140-2 certifiable embedded modules provide military-grade security and comprehensive frequency range from 2.3-2.5GHz and 4.9-6.1GHz, and they are ideal for integrating into various radio-in-a-system solutions for military, video surveillance cameras, and vehicular communication applications.

## Key Features and Benefits

- Smaller form factor (4"x3") makes integration easier and provides time-to-market advantage for OEMs.
- Configurable operating modes - Multi-Point Subscriber, WLAN Access Point and Client, to meet the requirements of variety of applications.
- Flexible channel bandwidths of 5/10/20/40MHz for effective spectrum management
- Wide range of frequency selection in 2.3-2.5GHz and 4.9-6.1GHz bands to cater worldwide regulatory domains
- Supports 1.8 and 4.4 GHz military frequencies in conjunction with Proxim's frequency converter
- Optional on board security processor for AES-256 bit encryption
- FIPS-140-2 certifiable
- Transmit Power up to 24dBm
- Powered from 12V DC
- 10/100 Ethernet and Serial Interface
- RoHS compliant

**Tsunami™ Mini 8100 embedded module**

## Target Markets

- Federal SI's – Military Applications
- OEM Video Camera manufacturers
- Portable / vehicular / mobile radio communications
- Governments with requirement for FIPS 140-2 certifiable products
- Secure banking applications
- POS terminals

### End-to-End Broadband Wireless Product Portfolio

Proxim Wireless offers the industry's most complete suite of outdoor broadband wireless access products. This portfolio includes:

- **Tsunami™ MP-8100** – *Proxim's Point-to-Multipoint Product line delivering wireless performance in excess of 4G products on the market today.*

- **Tsunami™MP.11** – *Proxim's best selling Point-to-Multipoint product line for global markets*

- **MeshMAX** – *Our Tsunami™MP.11 and ORiNOCO® access point all in one compact outdoor solution*

- **ORiNOCO®AP** - *World-class performing enterprise 11n access points*

- **Tsunami™MP.16** – *WiMAX for the 3.5 - 3.65 GHz frequency band*

**Proxim Wireless** is a global pioneer of end-to-end broadband wireless systems that deliver quadruple play services. From Wi-Fi to wireless Gigabit Ethernet – our WLAN, mesh, WiMAX and point-to-point products are available through our extensive global channel networks.

| PRODUCT MODEL | Tsunami mini 8100 Series |
|---|---|
| MP-8100-MINI-SUA | Tsunami 8100 Mini – Embedded 2x2 MIMO subscriber unit with MMCX connectors |
| MP-8100-MINI-SUA-HS | Tsunami 8100 HS Mini – High security embedded 2x2 MIMO subscriber unit with MMCX connectors |
| **RADIO & TRANSMISSION** | |
| CONFIGURATION | 2x2 MIMO |
| MODULATION METHOD | OFDM – Orthogonal Frequency Division Multiplexing |
| FREQUENCIES | 2.3-2.5GHz, 4.9 GHz – 6.1 GHz (Subject to Country regulations) |
| CHANNEL BANDWIDTH | 5MHz, 10MHz, 20MHz and 40MHz |
| DATA RATE | Up to 300 Mbps |
| MAX TRANSMIT POWER | 24dBm |
| **PHYSICAL SPECIFICATION** | |
| DIMENSION | 4 in x 3 in (101.6 mm x 76.2 mm) |
| WEIGHT | 69 grams |
| PCB TYPE | 8-layer FR4 |
| LED INDICATORS | 4 LEDs for status indication |
| MOUNTING | 4 corner holes of 3.5mm diameter at 2.7 inch and 3.7 inch center to center distance |
| **SECURITY** | |
| CRYPTOLOGY | FIPS 140-2 certifiable |
| WIRELESS ENCRYPTION | ▪ 256-bit AES (Optional)<br>▪ 128-bit AES |
| SECURE WIRELESS | ▪ Wireless Outdoor Routing Protocol (WORP)<br>▪ Mutual authentication |
| **MANGEMENT** | |
| LOCAL | RJ-11 serial interface |
| REMOTE | SSH, SSL, Telnet, HTTPS |
| SNMP | SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790<br>RFC-2571, RFC-3412,RFC-3414<br>802.3MAU; 802.11MIB and ORiNOCO MIB |
| S/W UPGRADATION | Remote upgradeable through TFTP or HTTP |
| **INTERFACES** | |
| WIRELESS ETHERNET | 100 Base-Tx Ethernet (RJ-45 connector placement option) |
| WIRELESS PROTOCOL | Wireless Outdoor Routing Protocol (WORP) |
| ANTENNA CONNECTOR | 2x2 MIMO antenna support |
| **POWER / ENVIRONMENT** | |
| POWER OPTION | Powered by 12V DC |
| POWER CONSUMPTION | Maximum 13.8 Watts, Typical 7 Watts |
| STORAGE TEMPERATURE | -20°C to 75°C |
| OPERATING TEMPERATURE | 0°C to 55°C |
| HUMIDITY | 95% (non condensing) |
| **SAFETY** | RoHS compliant |

For detailed technical specification, please visit **http://www2.proxim.com/ptmpwimax/tsunami-mp-8100-series/mini-8100.html**