



## 802.11 Wireless Station Stack

Component name	802.11 Station Stack		
Category (IP/ Reusable)	Reusable	Component type (HW/SW/product etc)	SW
HW Platform	RAPS Board of Netcleus	SW Platform /OS	C, Micro-Itron
Applications / applicable products	Wireless applications/ products		
Market/ industries applicable	Broadband Network		
Product Description	Development of Wireless Station MAC based on IEEE 802.11 and 802.11i specifications. IEEE 802.11 is a set of standards carrying out wireless local area network (WLAN) computer communication in the 2.4, and 5 GHz frequency bands.		
Technical specifications	<ul style="list-style-type: none"><li>• Implemented 802.11, 802.11a/b/g, 802.11i</li><li>• Implemented in C</li></ul>		
Features /benefits	<ul style="list-style-type: none"><li>• Optimized solution for custom platforms and hardware</li><li>• Supported a, b, g modes</li><li>• Open authentication and association</li><li>• Support for infrastructure and IBSS networks</li><li>• Power management support</li><li>• Pre-authentication for roaming</li><li>• Command line utility for user interface.</li><li>• Shared key security – WEP, WPA and WPA2.</li><li>• Internal key management</li><li>• Support for Rate Switching Algorithm for optimum use of transmission rate.</li><li>• Support for permanent storage</li><li>• Support for five different configurations at a time, one being idle.</li><li>• Interoperability with all standard access points and stations in 802.11b, 802.11g and 80211a.</li></ul>		
Readiness	Available version is easily portable to any platforms.		