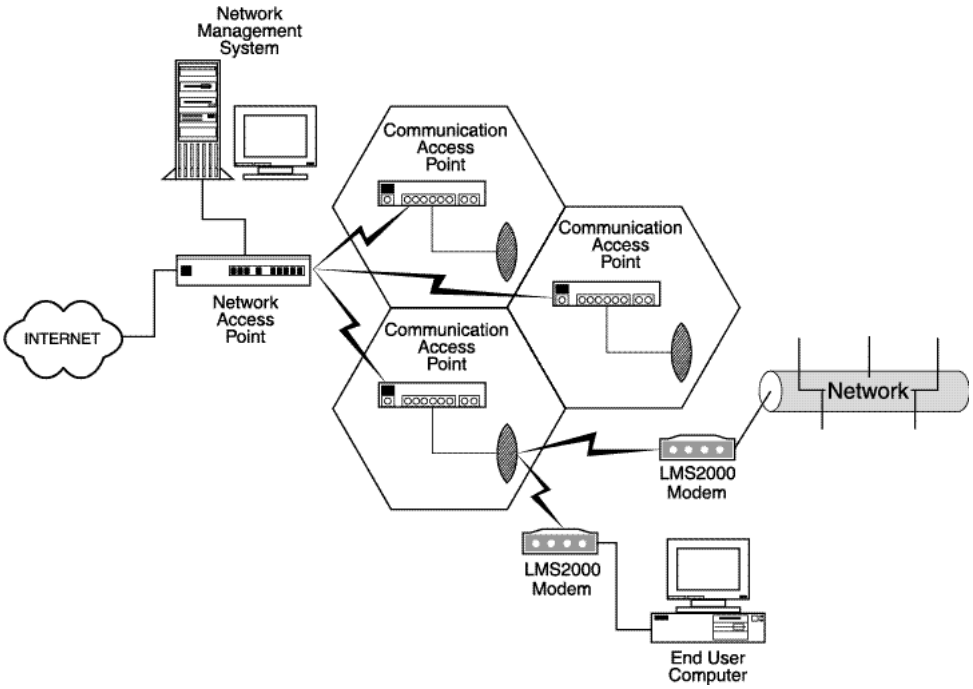
LMS2000

Aimed at medium and large businesses and organizations requiring medium to high-speed throughput, combined with high availability, the LMS2000 provides the Wireless Internet Service Provider (WISP) with superior subscriber, equipment and network management, enhanced security, advanced billing support and a variety of maintenance features including real time alarms - all of which help to ensure that communication flows and profits soar - in a cost effective, easy to use, turnkey package.

LMS2000 at a glance

- *Is a complete system solution incorporating "best-in-class" components to maximize system capabilities and availability*
- *Provides sophisticated subscriber, network and equipment management for a cost effective solution which can be scaled to meet the long term needs of the WISP in a variety of environments*
- *Has superior maintenance features which allow operators to verify the configuration and operation of network modules on a scheduled or on-demand basis*
- *Generates real time alarms of failure of critical components*
- *Has automatic redundant fail over of key components to maximize system availability*
- *Provides environmentally hardened cabinets for key components to further enhance system availability and reduce maintenance costs*
- *Allows roll out of new system features from a central location in a controlled fashion*
- *Delivers IP communications links between a customer LAN and the Internet*
- *Operates in the 2.4 to 2.4835 GHz license exempt frequency band*
- *Has a raw data rate of 11 Mbps and provides access at speeds of up to 7.0 Mbps which is comparable to cable modems and xDSL*
- *Offers cost effective network infrastructure which can be easily scaled to meet the long term needs of the WISP*
- *Migrates easily to and from other LMS family products to ensure a long term solution and maximize return on investment*
- *Is a layer 3 end user modem to provide flexible, cost effective end user solutions*



WaveRider®
The World's Wireless Web Company

NAP Specifications

The following tables list the technical specifications for the **LMS2000 NAP** including the NMS Workstation.

CAP-NAP Backhaul Interface Specifications	
Maximum Number of CAP-NAP Links	7
Physical Interface	10/100BaseTx auto-sense Ethernet
NAP-Internet Interface Specifications	
Maximum Number of NAP-Internet Links	1
Physical Interface	10/100BaseTx auto-sense Ethernet, full or half-duplex

The following tables list the technical specifications for the **LMS2000 CAP, CCU & EUM** configured for operation in the FCC/IC RF Regulatory Domain.

CAP Radio Specifications	
Maximum Number of Operational CCUs and Orthogonal Channels	3
Maximum Number of Standby CCUs	1
Ethernet Backhaul Interface Specifications	
Physical Interface	10/100BaseTx auto-sense, full or half-duplex

CCU and EUM Radio Specifications	
Minimum Channel Centre Frequency	2.412 GHz
Maximum Channel Centre Frequency	2.462 GHz
Channel Bandwidth	22 MHz
Center Frequency Spacing Increment	5 MHz
Minimum Separation Between Orthogonal Channels	25 MHz
Maximum Orthogonal Channels	3
Orthogonal Channel Set	1, 6, 11
Orthogonal Channel Set Centre Frequencies	2.412 GHz, 2.437 GHz, 2.462 GHz
Maximum Output Power	+15dBm
Modulation Scheme	CCK (Complementary Code Keying) DSSS (Direct Sequence Spread Spectrum)
Receiver Sensitivity for BER < 10-5	-72 dBm
Maximum Over-the-Air, Raw Data Rate	11 Mbps
Ethernet Interface Specifications	
Physical Interface	10BaseTx half-duplex

Power Supply Specifications	**NAP**	**CAP & CCU**	**EUM**
AC Input	110/220 ±15% VAC single phase	110/220 ±15% VAC single phase	110/220 ±15% VAC single phase
AC Input Frequency	50/60 ±3 Hz	50/60 ±3 Hz	50/60 ±3 Hz
Maximum Input Power	1000 VA	1700 VA	1.5A
Maximum UPS Operating Time at full load	10 minutes	10 minutes	User defined
Environmental Specifications	**NAP**	**CAP & CCU**	**EUM**
Operating Temperature	10º to 40º C, indoor environment, 5% to 95%, RH non-condensing	10º to 40º C with integral fan cooling 10º to 55º C	10º to 55º C, indoor environment, 5% to 95%, RH non-condensing
Storage Temperature	-40º to 70º C	-40º to 70º C	-40º to 70º C

Version 2