

# HANA™

# SELECT

HIGH AVAILABILITY NETWORK ADAPTER



## For superior 3G and WiMAX networking

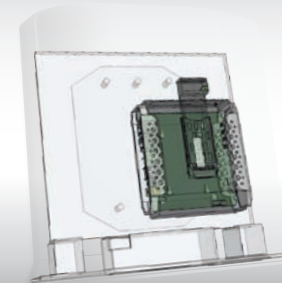
- Assures business continues during wireline network outages
- Protects business data
- Maintains customer service
- Quick and simple installation
- Improves signal quality and increases 3G / WiMAX Reliability / Speed / Coverage

HANA™ SELECT improves speed and coverage offering advanced security, redundancy, and management protocols. HANA™ SELECT provides carriers, MSPs, large businesses, and enterprise increased 3G & WiMAX coverage. HANA™ SELECT is built to screen out interference in IT closets, and provide extended reach for businesses in rural locations as a primary wireless connection.

- High gain antenna with 802.11n Wi-Fi 2x2 MIMO router
- WiMAX USB or ExpressCard
- Auto detects 3G & WiMAX signal strength
- Advanced security and management protocols
- XtremeSpeed® WAN Optimization

### Router & Antenna

HANA™ SELECT  
Simply the best business insurance available. The only High Availability solution combining a router with dual High Gain Cellular Antennas.



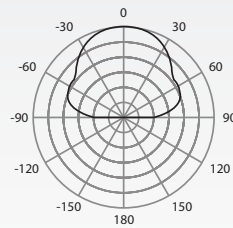
### Antenna Configuration

**3G  
&  
WiMAX**

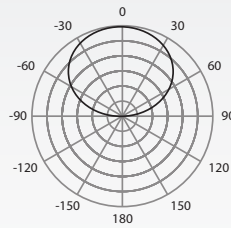
## HANA SELECT 3G Antenna Specifications

Frequency Range	824-896 (GSM) 1850-1990 (CDMA)
Gain	9.3 dBi Peak (+/- 1 dBi)
3dB Beamwidth Vertical/Horizontal	91 deg/59 deg (GSM) 60 deg/50 deg (CDMA)
Polarization	Linear - Vertical vertical
VSWR	≤1.7:1 typ., ≤2.5:1 max.
Front-to-Back Ratio	≥ 30 dB
Cross Polarization	≥ 20 dB
Power Rating	1 Watts
Impedance	50 ohms
Lightning Protection	DC ground
Connector Type	FME Jack

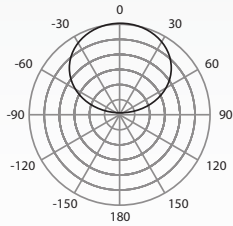
PCS Band E Plane



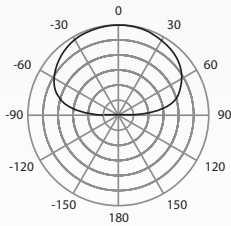
GSM Band E-Plane



PCS Band H-Plane



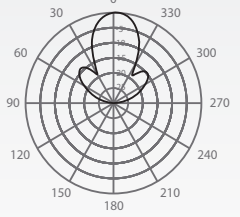
GSM Band H-Plane



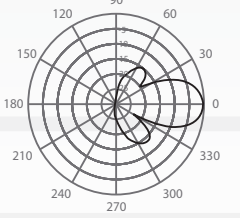
## HANA SELECT WiMAX Antenna Specifications

Frequency Range	2.5-2.7GHz
Gain	12.0dBi Typical
3dB Beamwidth Vertical/Horizontal	35 degrees/ 35 degrees (+/- 5°)
Polarization	Linear - Vertical
VSWR	≤ 1.5:1 typ., ≤2.5:1 max.
Front-to-Back Ratio	≥ 30 dBi
Cross Polarization	≥ 25 dBi
Power Rating	1 Watt
Impedance	50 ohms
Lightning Protection	DC ground
Connector Type	FME Jack

RF Patterns  
Vertical Cut, typ.



RF Patterns  
Horizontal Cut, typ.



## ROUTER SPECIFICATIONS

### NEXWARE™ FEATURES

XtremeSpeed® WAN Optimization  
IPsec VPN  
VRRP (Virtual Router Redundancy Protocol)  
WDS (Wireless Distribution System)  
Auto Failover w/Anti-Flap

### NETWORK FEATURES

Supports cable modems, DSL,  
wireline WAN, T1, & WiMAX  
WAN Auto Failover to WiMAX  
for redundancy  
DHCP Server  
DNS Relay  
DMZ Host  
Auto-Reconnect  
Connect-on-demand  
Auto-Disconnect  
MAC access control  
Virtual server  
DynamicDNS  
Static & Dynamic routing with RIP  
QoS

### MANAGEMENT

OMA-DM  
SNMP Management  
Supports SSH and Telnet  
Firmware upgradable  
Auto connect to network

### ACCESS

1\*ExpressCard Slot  
1\*USB 2.0  
(1) 10/100 WAN  
(Software Configurable)  
(1) 10/100 LAN

### STANDARDS

IEEE 802.11 b/g/n 2x2 mimo  
IEEE 802.3  
IEEE 802.3u

### WIRELESS STANDARD

IEEE 802.11 b/g/n 2x2 MIMO  
2.4 - 2.462 GHz  
CCK  
Tx/Rx power 18dBm/Per Cell  
indoors approx. 35-100 meters  
outdoors up to 100-300 meters

### NUMBER OF CHANNELS

1-11 for N. America (FCC);1-11 for (DOC)  
1-13 Europe (Except and ETSI)  
1-14 (TELEC)

### DATA RATE

Up to 300 mbps Wi-Fi  
100 mbps Ethernet

### POWER

Switching 12V  
1.25A

### SECURITY

64-bit and 128-bit  
WEP encryption  
WPA encryption w/ WPA2 support  
NAT (Network Address Translation)  
VPN IPsec Pass Through  
VPN IPsec Termination

### WORKING ENVIRONMENT

Temperature 0~40°C  
Humidity 10%~90%  
non-condensing

### COMPATIBILITY

Works with all North American Carriers  
For a list of supported  
modems please visit  
[www.nexaira.com](http://www.nexaira.com)