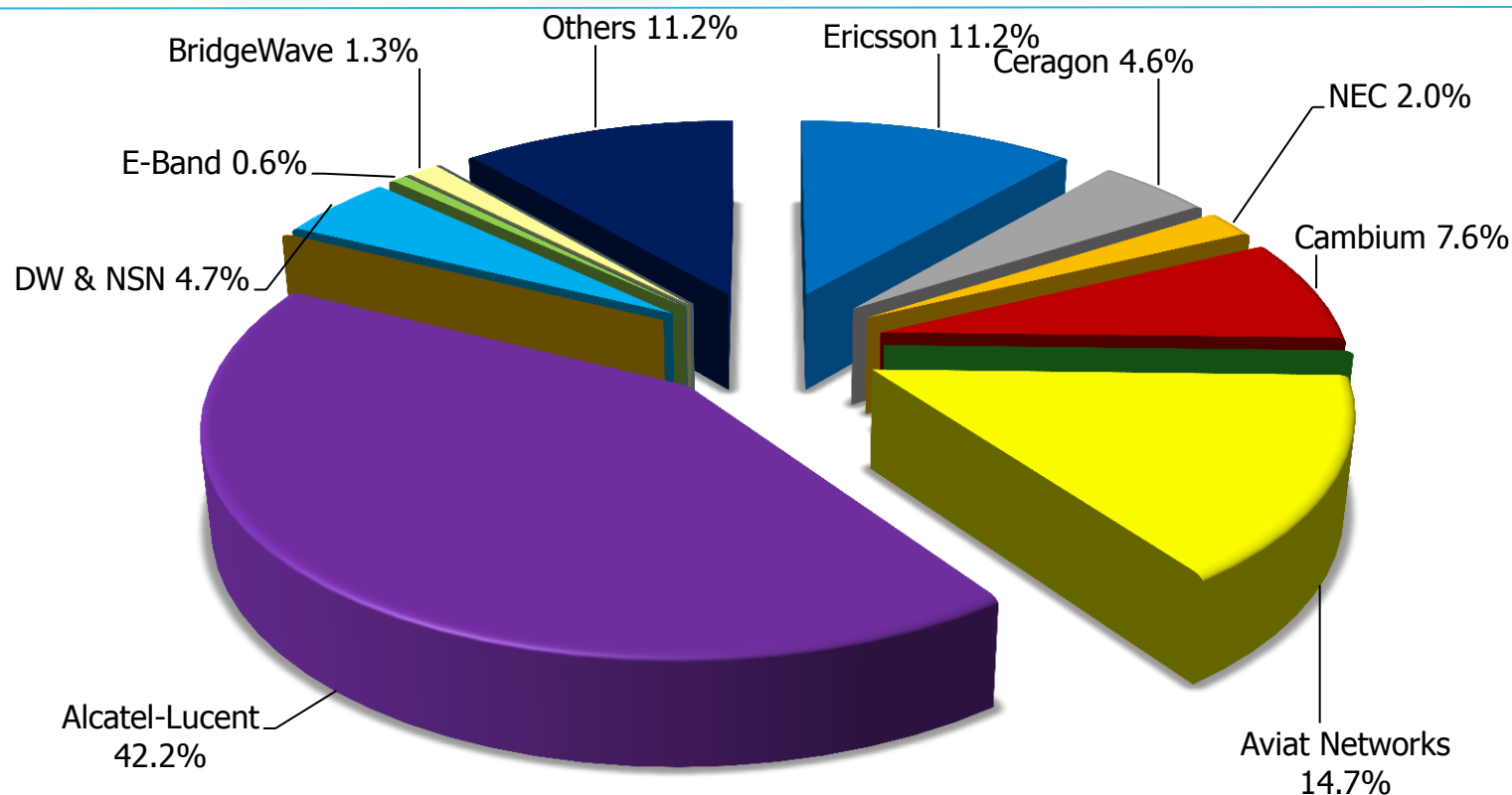


AT
THE
SPEED
OF
IDEAS™



9500 Microwave Packet Radio (MPR) Family

NORTH AMERICA MW MARKET SHARE (4Q Rolling ending 1Q13)



NAR MW Market

645 \$M (+18.4% YoY)

Source: Dell'Oro Group May 2013

- **NAR : 15.7%** of WW revenues

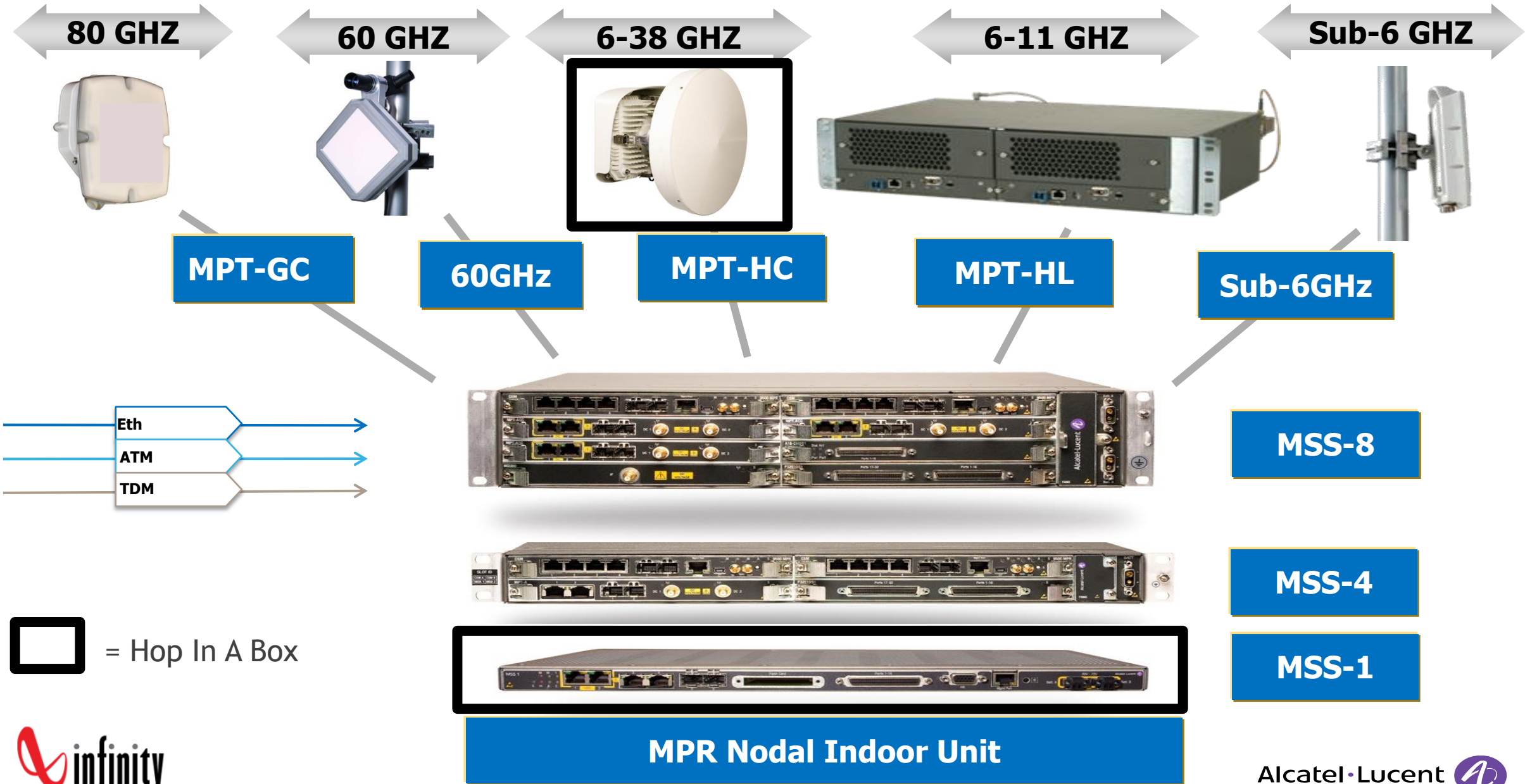
- Rankings :

- #1 Alcatel-Lucent 
- #2  Aviat NETWORKS
- #3  ERICSSON
- #4  Cambium Networks™
- #5  DragonWave  Nokia Siemens Networks
- #6  CERAGON
- #7  NEC

Alcatel-Lucent #1 in North America
 NAR market increased by 18.4% YoY 4Q rolling
 ALU market share in NAR increased YoY 4Q rolling (39% to 42.2%)

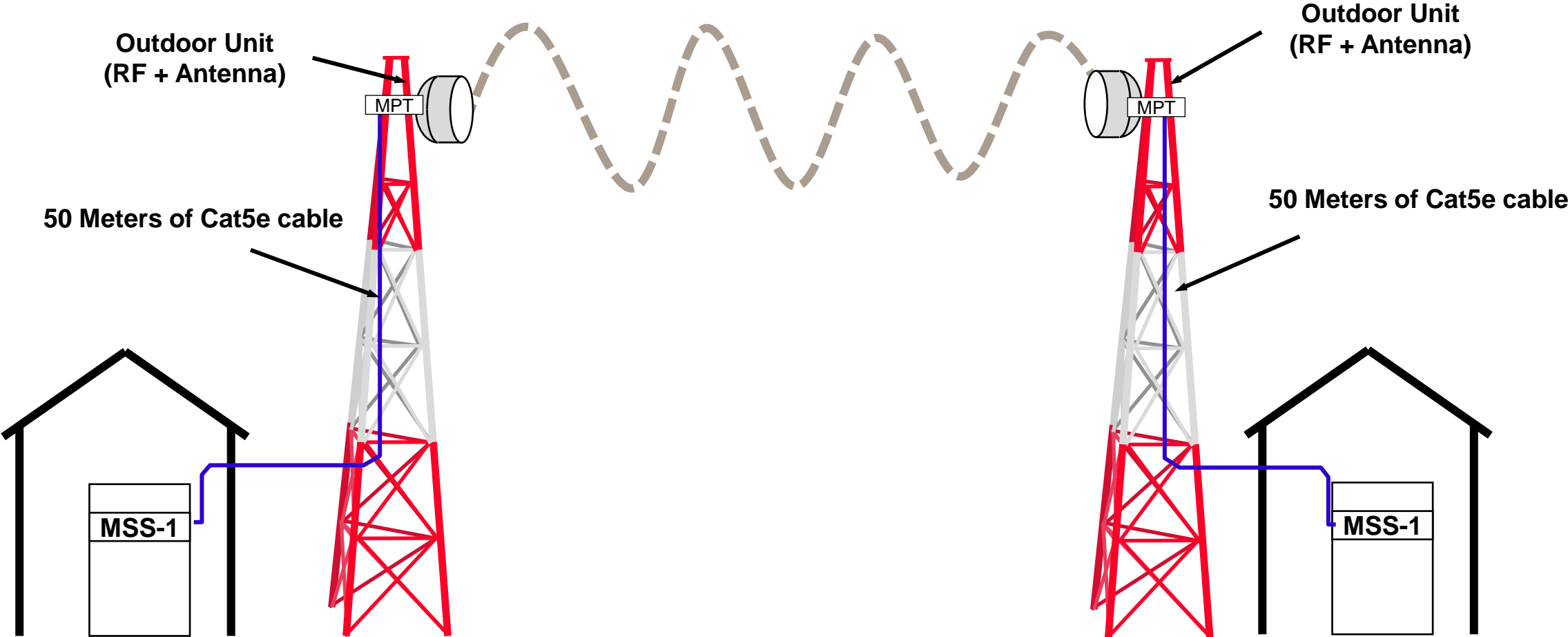
9500 MPR (Microwave Packet Radio)

9500MPR NODAL CONFIGURATION



 = Hop In A Box

9500 MPR Hop In A Box



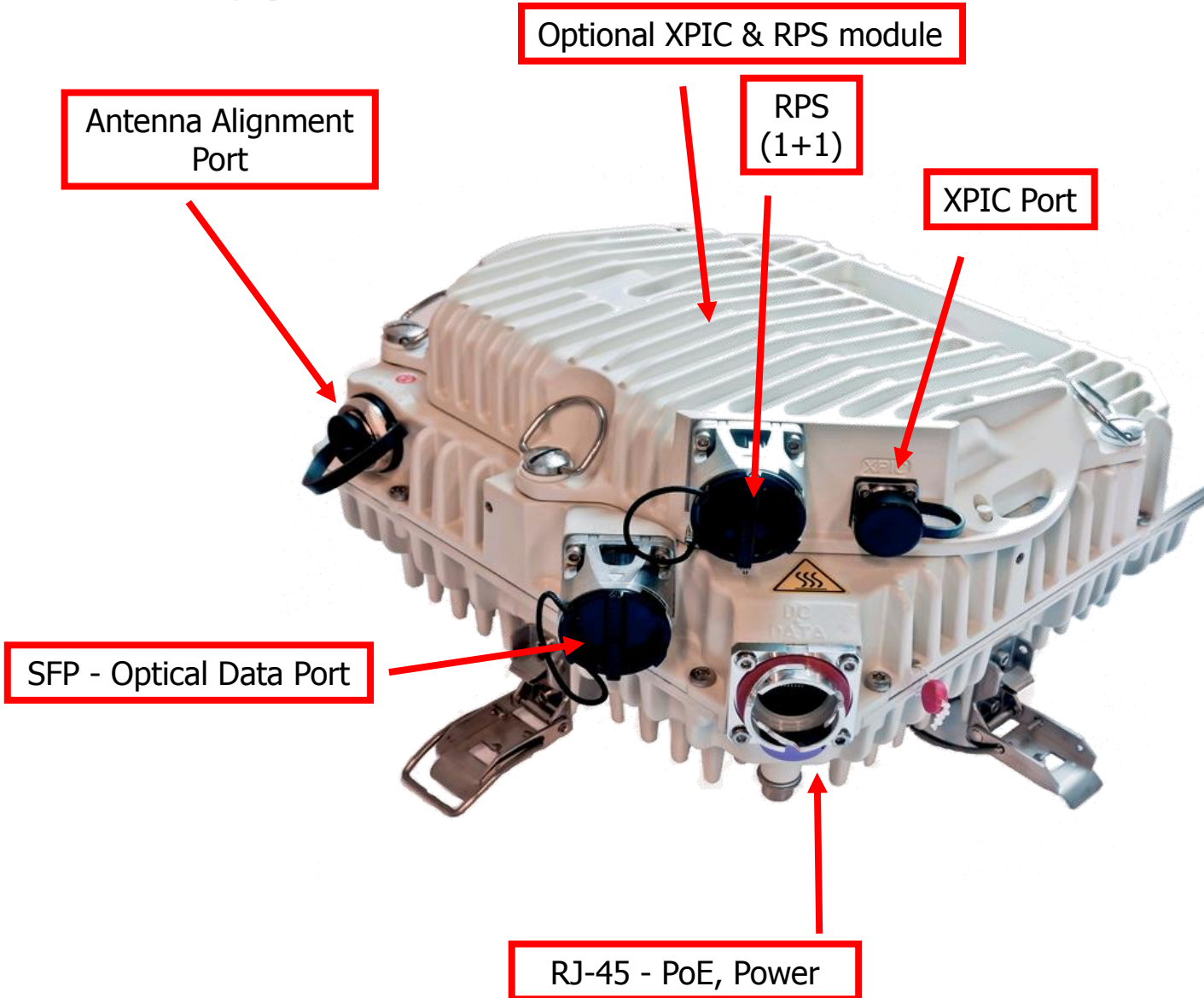
9500 MPR MSS-1

- ½ U “thin crust pizza box”
- 16DS1 + 6 Gbit/s interfaces
- Full Interoperability with MSS4/8 since software is common
- Support of up to 6 MPT-HC/XP/ 2 MPT-HL
- Typical Applications
 - Last Mile access point
 - Access Ring Nodes
 - Repeater Nodes

- Fan-less Design **Temperature hardened -40 °C to +65 °C**
- Designed to meet Telecordia GR3108 Class 2 and IEEE 1613
- 1+0, 1+1 radio protection
- Multiservice Ring protection 8032 v2 support for access rings
- 2 PFoE interfaces available for MPT-HC powering
- 2+0 LAG L1
- Fully Redundant PSU supporting $\pm 20 - \pm 72$ VDC
- Housekeeping IN/OUT management



MPT-HC / MPRe



DC Power: - 48 VDC
Range - 40.5 to - 57.6 VDC

Power consumption	39W
XPIC board	7W
SFP	1W

Dimensions in. 9.5 x 9.5 x 6.0

Weight 12 lb.

Temperature range -33C to +55C

9500MPR Integrated Antenna Options



MPT-XP With Integrated Antenna



MPT-HC With Integrated Antenna

9500 MPR (Microwave Packet Radio) Hop In A Box Program

9500 MPR Special Offer

Hop in a Box

- **5.8 GHz Hop - \$13,740**

- Operates in 5.8 GHz Unlicensed Band, 30Mhz Channel
- 5.8 GHz MPT-HC
- MSS1 Kits
- RTU 160 Mbps capacity
- Current Release of Software License
- Flash cards
- CAT5e cable & Ground Kits
- 3MU00115AA (5725.5-5785.5/5789.5-5849.5 MHz)
- 5.8 GHz integrated 3-ft. dish
- Antenna pipe mount
- -48V 5 A Power Supply

- **11 GHz Hop - \$20,296**

- Operates in 11 GHz Licensed Band, 30Mhz Channel
- 11 GHz MPT-HC
- MSS1 Kits
- RTU 160 Mbps capacity
- Current Release of Software License
- Flash cards
- CAT5e cable & Ground Kits
- 3MU00115AB (10695-10961/11199-11485 MHz)
- 3MU00115AC (10933-11200/11430-11705 MHz)
- 11 GHz integrated 4-ft. dish
- Antenna pipe mount
- -48V 5 A Power Supply

The BOM of the kit is set. No substitutions.
Shipping and services not included.
Custom configurations are available upon request.

9500 MPR Special Offer

Hop in a Box

- **18 GHz Hop - \$13,166**

- Operates in 18 GHz Licensed Band, 30Mhz Channel
- 18 GHz MPT-HC
- MSS1 Kits
- RTU 160Mbps capacity
- Current Release of Software License
- Flash cards
- CAT5e cable & Ground Kits
- 3MU00115AD (17700-18140.5/19260-19700.5 MHz)
- 18 GHz integrated 2-ft. dish
- Antenna pipe mount
- -48V 5 A Power Supply

- **23 GHz Hop - \$13,166**

- Operates in 23 GHz Licensed Band, 30Mhz Channel
- 23 GHz MPT-HC
- MSS1 Kits
- RTU 160 Mbps capacity
- Current Release of Software License
- Flash cards
- CAT5e cable & Ground Kits
- 3MU00115AE (21198-21819/22400-23019 MHz)
- 3MU00115AF (21781-22400/22981-23600 MHz)
- 23 GHz integrated 2-ft. dish
- Antenna pipe mount
- -48V 5 A Power Supply

The BOM of the kit is set. No substitutions.
Shipping and services not included.
Custom configurations are available upon request.

9500 MPR BOM

			5.8GHz Hop Kit	11GHz TX 10695-10961 Hop Kit	11GHz 10933-11200 Hop Kit	18GHz Hop Kit	23GHz 21198-21819 Hop Kit	23GHz 21781-22400 Hop Kit
			Operates in 5.8GHz Unlicensed Band 30MHz Channel up to 160Mbps	Operates in 11GHz Band 30MHz Channel up to 160Mbps	Operates in 11GHz Band 30MHz Channel up to 160Mbps	Operates in 18GHz Band 30MHz Channel up to 160Mbps	Operates in 23GHz Band 30MHz Channel up to 160Mbps	Operates in 23GHz Band 30MHz Channel up to 160Mbps
			Unprotected	Unprotected	Unprotected	Unprotected	Unprotected	Unprotected
			3MU00115AA	3MU00115AB	3MU00115AC	3MU00115AD	3MU00115AE	3MU00115AF
ITEM CODE	ITEM DESCRIPTION	Sell Price	\$7,740	\$10,786	\$10,786	\$9,722	\$9,722	\$9,722
3MU00109AA	MSS1 Kit		2	2	2	2	2	2
3DB20913BA	MPT-HC V2 5,8GHz 5725.5-5785.5		1					
3DB20914BA	MPT-HC V2 5,8GHz 5789.5-5849.5		1					
3DB20752BA	5.8GHz CH1-1P P.SH.64MHz 5725.5-5755.5 / 5789.5-5819.5		2					
3DB20752BB	5.8GHz CH2-2P P.SH.64MHz 5755.5-5785.5 / 5819.5-5849.5		2					
3DB20371BB	MPT-HC 11GHz 10695-10961			1				
3DB20547BB	MPT-HC 11GHz 11199-11485			1				
3DB20546BB	MPT-HC 11GHz 10933-11200				1			
3DB20548BB	MPT-HC 11 GHz 11430-11705				1			
3DB20432BB	MPT-HC 18GHz 17700-18140,5					1		
3DB20433BB	MPT-HC 18GHz 19260-19700,5					1		
3DB20473BA	MPT-HC 23GHz 21198-21819						1	
3DB20475BA	MPT-HC 23GHz 22400-23019						1	
3DB20474BA	MPT-HC 23GHz 21781-22400							1
3DB20476BA	MPT-HC 23GHz 22981-23600							1
3CC52191AA	Light Service alignment kit with LEMO connector		2	2	2	2	2	2
3CC52199AB	50m Preassembled CAT5e R2TC/RJ45		2	2	2	2	2	2
1AD040130004	Ground kit - (qty 3 per run, based on length)		6	6	6	6	6	6
1AB328430001	Lightning arrestor RJ-45 router output (MPRe)		2	2	2	2	2	2
3EM23068ADAA	RTU 160Mbps TRX Capacity		2	2	2	2	2	2
3EM24226AA	Microwave Factory Test Certificate		2	2	2	2	2	2
3EM23085AOAA	9500 MPR R4.20 SW License/CD		2	2	2	2	2	2
3EM23086AOAA	9500 MPR R4.2.0 Flash Card (1 per CORE)		2	2	2	2	2	2
3EM23067AAAA	9500 MPR CT License (Per PC Installed)		1	1	1	1	1	1

9500MPR Integrated Antenna Options

9500 MPR MPT-HC / MPR-e INTEGRATED ANTENNAS FROM RFS			
Freq (GHz)	Model Number		Notes
5.8	SB2-57AMPT	5725 - 5850	
11	SC2-W100AMPT	10000 - 11700	Cat A between 10.55 and 10.68, for FCC and Industry
	SCX2-W100AMPT	10000 - 11700	FCC cat B, not FCC cat A, not SRSP cat A or B
	SB2-107AMPT	10700 - 11700	FCC cat B, not FCC cat A, not SRSP cat A or B
	SBX2-107AMPT	10700 - 11700	FCC cat B, not FCC cat A, not SRSP cat A or B
	SB3-W100AMPT	10000 - 11700	FCC cat A effective 1 Nov 2011, not SRSP cat A or B
	SBX3-W100AMPT	10000 - 11700	FCC cat A effective 1 Nov 2011, not SRSP cat A or B
	SB4-W100AMPT	10000 - 11700	FCC cat A. Not SRSP cat A or cat B
	SBX4-W100AMPT	10000 - 11700	FCC cat A. Not SRSP cat A or cat B
	SB6-W100AMPT	10000 - 11700	200 km/h
SBX6-W100AMPT	10000 - 11700	200 km/h	
18	SC2-190AMPT	17700 - 19700	FCC and SRSP cat A and cat B
	SCX2-190AMPT	17700 - 19700	FCC and SRSP cat A and cat B
	SB3-190AMPT	17700 - 19700	
	SBX3-190AMPT	17700 - 19700	
	SB4-190AMPT	17700 - 19700	
	SBX4-190AMPT	17700 - 19700	
	SB6-190AMPT	17700 - 19700	200 km/h
	SBX6-190AMPT	17700 - 19700	200 km/h
23	SB1-220AMPT	21200 - 23600	not SRSP cat A.
	SC2-220AMPT	21200 - 23600	not SRSP cat A
	SCX2-220AMPT	21200 - 23600	not SRSP cat A
	SB2-220AMPT	21200 - 23600	manufactured in Meriden
	SBX2-220AMPT	21200 - 23600	
	SB3-220AMPT	21200 - 23600	
	SBX3-220AMPT	21200 - 23600	
	SB4-220AMPT	21200 - 23600	
	SBX4-220AMPT	21200 - 23600	
	SB6-220AMPT	21200 - 23600	200 km/h
	SBX6-220AMPT	21200 - 23600	200 km/h

Questions

Contact Info



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