

Proxim Antennas *and* Accessories

Product Guide

Proxim offers many antenna options to customize its wireless network equipment for differing environments and to help increase coverage. This document lists the complete line of Proxim antennas, cables, connectors, and mounting accessories.

Definitions

Omnidirectional Antenna: Regular low-gain omnidirectional antennas provide nearly equal coverage in a spherical pattern around the antenna. For greater coverage, gain omnidirectional antennas focus radio energy horizontally, sacrificing some coverage directly above and below the antenna. In either case, place the antenna near the center of your coverage area, free of nearby obstructions.

Directional Antenna: Directional antennas cover relatively long, narrow patterns in one direction. By placing one at one end of your coverage area, you may communicate over very long distances. Directional antennas are ideal for bridging the gap between buildings, to extend coverage to any oddly-shaped area, or in any situation point-to-point communications are required, such as along a long corridor.

Dual Gain Antenna: Dual gain antennas use different amplification levels for transmit and receive. Designed specifically for ETSI-regulated countries where the maximum transmit power is limited to 100mW, the dual gain antenna amplifies a nominal amount on transmit, but a much greater amount on receive. This increases the maximum distance over which such an antenna can receive signals and increases their effective range for point-to-point applications. They are useful for applications such as bridging between buildings or in installations that are sensitive to RF signals. This is the only antenna with gain that is legal where regulatory bodies limit radio power output to 100mW EIRP.

Ordering Information and Nomenclature

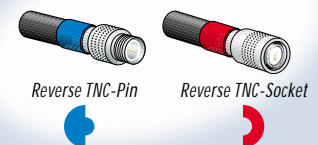
To build a system, follow these simple steps:

1. Begin with the Access or Extension Point. Access and Extension Points come standard with Reverse TNC-pin connectors only.
2. Choose an antenna. Most antennas come with two cable options, one of which allows direct connection to the AP or EP with no adapter.
3. Select a cable (if necessary). Cables come in varying lengths and with various connector options. Cables may be joined up to a maximum length of 100 feet (30 meters), but it is recommended that no more than two cables be joined on a cable run.
4. Select a connector adapter if needed to join your chosen antenna to the appropriate cable. (Note that cable adapters are not sold in the U.S.)

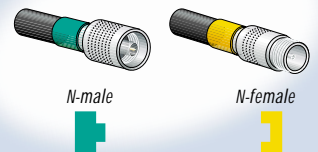
Due to FCC regulations, U.S. customers must design and install systems using Reverse TNC (RTNC) connectors only. Cables and antennas with RTNC connectors carry the suffix “-05”. Thus, when ordering the 7013 Omnidirectional Antenna, the proper order number for a system to be installed in the U.S. would be “7013-05”.

Outside the U.S., local regulations may dictate such things as maximum power output, connector or antenna choice. Check with local authorities or your local Proxim reseller.





Within the United States Ordering suffix -05


















Outside the United States Ordering suffix -02





Antennas for PC Cards and ISA Cards


7741 Indoor Omnidirectional Dipole Antenna			
Antenna included when the RangeLAN2 7401 PC Card is ordered.	Height 3.50" (8.9cm) Cable Length 12" (30.5cm) Connector MMCX Right Angle male		
7742 Indoor Omnidirectional Snap-on Antenna			
Antenna included when the RangeLAN2 7402 PC Card is ordered.	Dimensions 0.90" H x 1.65" W x 0.197" D (2.3cm x 4.2cm x 0.5 cm) Cable Length N/A Connector MMCX male		
7011 2.15 dBi Gain Indoor Omnidirectional Antenna			
 Antenna included when the RangeLAN2 7100 ISA Card is ordered.	Height 4.55" (11.55 cm) Cable length 4 ft. (1.2 m) Connector Reverse SMA-socket		


Antennas for Access Points and Extension Points


7012 5.15 dBi Gain Indoor/Outdoor Omnidirectional Antenna with Pole Mount			
 -02 Antenna enclosed in long-life, ultraviolet-stabilized, polycarbonate cylinder. May be used indoors or out. Includes pole mounting for outdoor use. Radiation pattern tends to fill available space.	Half-Power Beam Width +/-18 degrees vertical 360 degrees horizontal Height 13.5" (34.3 cm) Diameter 1.125" (2.9 cm) Mounting Mast Diameter 2" (5 cm)	Cable Length 12" (30.5 cm) Connector Options (-02): N-female (-05): Reverse TNC-socket	
 -05 <i>Not available in all countries.</i>			
7013 5.15 dBi Gain Indoor Omnidirectional Antenna with Ceiling Mount			
 -02 Antenna is similar to the 7012 above, but includes suspension clamps for mounting on dividers in suspended ceilings in lieu of a pole mount. Not suitable for outdoor use.	Half-Power Beam Width +/-18 degrees vertical, 360 degrees horizontal Height 13.5" (34.3 cm) Diameter 1.125" (2.9 cm)	Fits dividers in suspension ceilings from 0.94" to 1.40" (2.4cm to 3.6cm) Cable Length 12" (30.5 cm) Connector Options (-02): N-female (-05): Reverse TNC-socket	
 -05 <i>Not available in all countries.</i>			
7014 9.0 dBi Gain Outdoor Omnidirectional Antenna			
 -02 Use when longer-range omnidirectional coverage is needed. Not suitable when stations have elevation differences relative to this antenna.	Half-Power Beam Width +/-8.5 degrees vertical, 360 degrees horizontal Height 17" (43.2 cm) Diameter 1.44" (3.6 cm) Mounting Mast Diameter 2" (5 cm)	Cable Length: N/A Connector Options (-02): N-female (-05): Reverse TNC-socket	
 -05 <i>Not available in all countries.</i>			
7015 1.0 dBi Gain Indoor Omnidirectional Access and Extension Point Antenna			
 -05 This antenna is included with all RangeLAN2 and RangeLAN 802 Access Points.	Half-Power Beam Width +/-25 degrees vertical, 360 degrees horizontal Height 5.48" (13.9 cm) Diameter 0.22" at tip; 0.57" at base (0.56 cm tip; 1.4 cm base)	Cable Length N/A Connector (-05): Reverse TNC-socket	
7016 1.0 dBi Gain Indoor Omnidirectional Serial Adapter and Ethernet Adapter Antenna			
 -05 This antenna is included with the RangeLAN2 7910 Serial Adapter and the RangeLAN2 7920 Ethernet Adapter.	Half-power Beam Width +/-25 degrees vertical, 360 degrees horizontal Height 3.31" (8.4 cm)	Base height 1.08" (2.7 cm) Connector (-05): Reverse TNC-socket	
7022 12.0 dBi Gain Outdoor Directional Antenna			
 -02 Use for most general-purpose outdoor directional applications. This patch antenna has a fat, oval shaped pattern with little to no coverage behind the unit.	Half-Power Beam Width +/-22 degrees vertical, +/-18 degrees horizontal Dimensions 7.12" H x 7.12" W x 0.75" D (18.1 cm x 18.1 cm x 1.9 cm) Mounting Mast Diameter 1.25" (3.2 cm)	Cable Length 12" (30.5 cm) Connector Options (-02): N-female (-05): Reverse TNC-socket	
 -05 <i>Mounting hardware is included. Not available in all countries. Not certified for use with RangeLAN 802 or RangeLAN2 products in excess of 100mW.</i>			

7023 9.0 dBi Indoor Directional Antenna		
<p> -02 Use for most general-purpose indoor directional applications. This patch antenna has a fat, oval shaped pattern with little to no coverage behind the unit.</p> <p> -05 <i>Not available in all countries.</i></p>	<p>Half-Power Beam Width +/-27 degrees vertical, +/-30 degrees horizontal</p> <p>Dimensions 4.88" H x 4.88" H x 0.68" D (12.4 cm x 12.4 cm x 1.7 cm)</p>	<p>Cable Length 12" (30.5 cm)</p> <p>Connector Options (-02): N-female (-05): Reverse TNC-socket</p> 


7024 8.5 dBi Indoor/Outdoor Directional Antenna		
<p> -02 Use for most general-purpose indoor or outdoor directional applications. This patch antenna has a fat, oval shaped pattern with little to no coverage behind the unit. Mounting hardware is included.</p> <p> -05 <i>Not available in all countries.</i></p>	<p>Half-Power Beam Width +/-25 degrees vertical, +/-36 degrees horizontal</p> <p>Dimensions 4" H x 3.75" W x 1.26" D (10.2 cm x 9.5 cm x 3.2 cm)</p> <p>Cable Length 12" (30.5 cm)</p>	<p>Connector Options (-02): N-female (-05): Reverse TNC-socket</p> 


7025 Transmit 1 dBi/Receive 21dBi Outdoor Directional Dual Gain Antenna		
<p> -02 Parabolic directional outdoor antenna with split amplification gain for transmit and receive. Specifically designed for use in ETSI-regulated countries where maximum radiated power is limited to 100mW EIRP. It maintains maximum output power allowed while amplifying receive path by 21 dBi, thereby increasing range for point-to-point applications. Mounting hardware is included.</p> <p> -05</p>	<p>Half-Power Beam Width +/-6 degrees vertical, +/-6 degrees horizontal</p> <p>Dimensions 20" H x 24" W x 6" D (50.8 cm x 70 cm x 15.2 cm)</p> <p>Mounting From 3/4" to 2" diameter (1.9 cm to 5.1 cm)</p>	<p>Cable Length 24" (61 cm)</p> <p>Control Box NEMA 4 Rated</p> <p>Connector Options (-02): N-female (-05): Reverse TNC-socket</p> 


7026 Transmit 1 dBi/Receive 9dBi Outdoor Omnidirectional Dual Gain Antenna		
<p> -02 Omnidirectional outdoor antenna with split amplification gain for transmit and receive. Specifically designed for use in ETSI regulated countries where maximum radiated power is limited to 100mW EIRP. It maintains maximum output power allowed while amplifying receive path by 9 dBi, thereby increasing range for point to multi-point applications. Mounting hardware is included.</p> <p> -05</p>	<p>Half-Power Beam Width +/-19 degrees vertical, 360 degrees horizontal</p> <p>Height 17" (43.2 cm)</p> <p>Diameter 1.32" (3.4 cm)</p> <p>Mounting mast diameter 2" (5 cm)</p>	<p>Cable Length 24" (60.5 cm)</p> <p>Control Box NEMA 4-Rated</p> <p>Connector Options (-02): N-female (-05): Reverse TNC-socket</p> 


7031 13.5 dBi Outdoor Directional Antenna		
<p> -02 Use for highly directional applications. This antenna has a narrow, oval shaped pattern with little to no coverage behind the unit. Mounting hardware is included.</p> <p> -05 <i>Not available in all countries. Not certified for use with RangeLAN 802 or RangeLAN2 products in excess of 100mW.</i></p>	<p>Half-Power Beam Width +/-15 degrees vertical, +/-15 degrees horizontal</p> <p>Height 18" (45.7 cm)</p> <p>Diameter 3" (7.62 cm)</p>	<p>Mounting Mast Plate 5" x 3.125" (12.7 cm x 7.9 cm)</p> <p>Cable Length 33" (83.8 cm)</p> <p>Connector Options (-02): N-female (-05): Reverse TNC-socket</p> 
















Cables

7710 2' (0.6 m) Low Loss Extension Cable		
<p> -02 This short cable connects the RangeLAN2 7100 ISA Card to accessory antennas or extension cables.</p> <p> -05</p>	<p>Loss 0.5 dB</p> <p>Connector (-02): Reverse SMA-socket/N-female (-05): Reverse SMA-socket/Reverse TNC-pin</p>	

7712 20' (~6m) Low Loss Extension Cable		
<p> -02 <i>Not available in the U.S.</i></p>	<p>Loss 1.5 dB</p> <p>Connectors (-02): N-male/N-male</p>	

7715 50' (~16m) Low Loss Extension Cable		
<p> -02</p> <p> -05</p>	<p>Loss 3.5 dB</p> <p>Connectors (-02): N-male/N-male (-05): RTNC-pin/RTNC-socket</p>	







7717 75' (~25m) Low Loss Extension Cable		
<p> -02 <i>Not available in the U.S.</i></p>	<p>Loss 3.5 dB</p> <p>Connectors (-02): N-male/N-male</p>	

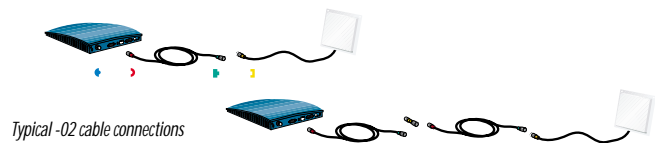
7720 5' (~1.5m) Low Loss Cable			
  -02		Loss0.6 dB	
  -05		Connectors(-02): RTNC-socket/ N-male (-05): RTNC-pin/RTNC-socket	
7721 10' (~3m) Low Loss Cable			
  -02		Loss0.9 dB	
  -05		Connectors(-02): RTNC-socket/ N-male (-05): RTNC-pin/RTNC-socket	
7722 20' (~6m) Low Loss Cable			
  -02		Loss1.5 dB	
  -05		Connectors(-02): RTNC-socket/ N-male (-05): RTNC-pin/RTNC-socket	

Connector Adapters for Cables

7730 N-female to N-female Connector			
  -02	Not available in the U.S.	Loss0.1 dB	
7731 Reverse TNC-socket to N-female Connector			
  -02	Not available in the U.S.	Loss0.1 dB	

Accessories

7732 Lightning Arrestor for Proxim Products			
  -02	To be installed between RangelAN equipment and antenna via coaxial cable.	Return Loss ≥ 19 dB	Impulse sparkover voltage (typical) < 650 V (at1 kV/ μ s)
  -05		Insertion Loss (typical) ≤ 0.1 dB	Connector Options (equipment side) ..(-02): N-female (-05): RTNC socket
		SealingIP 54	Connector Options (antenna side)(-02): N-female (-05): RTNC pin
		Current handling capability ... (8/20 μ s) min. 2.5 kA	
7733 Outdoor Adjustable Mount for the 7031 Antenna			
	Adjustable mount for 7031 directional antenna.	Range of Adjustment in 10-degree increments130 degrees vertical, 170 degrees horizontal	
		Mounting Plate Dimensions6.75" x 3.25" (17.1 cm x 8.3 cm)	



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