

XBee Series 2 - required cable loss chart when using gain antennas (PRELIMINARY)								
YAGI CLASS ANTENNAS								
Part Number	Type (Description)	Gain	Application*	Min. Separation Required	Cable-loss (dB)		Antenna tested	
A24-Y6NF	Yagi (6-element)	8.8 dBi	Fixed	2 m	5.7			
A24-Y7NF	Yagi (7-element)	9.0 dBi	Fixed	2 m	5.9			
A24-Y9NF	Yagi (9-element)	10.0 dBi	Fixed	2 m	6.9			
A24-Y10NF	Yagi (10-element)	11.0 dBi	Fixed	2 m	7.9			
A24-Y12NF	Yagi (12-element)	12.0 dBi	Fixed	2 m	8.9			
A24-Y13NF	Yagi (13-element)	12.0 dBi	Fixed	2 m	8.9			
A24-Y15NF	Yagi (15-element)	12.5 dBi	Fixed	2 m	9.4			
A24-Y16NF	Yagi (16-element)	13.5 dBi	Fixed	2 m	10.4			
A24-Y16RM	Yagi (16-element RPSMA connector)	13.5 dBi	Fixed	2 m	10.4			
A24-Y18NF	Yagi (18-element)	15.0 dBi	Fixed	2 m	11.9		XXX	
OMNI-DIRECTIONAL CLASS ANTENNAS								
Part Number	Type (Description)	Gain	Application*	Min. Separation Required	Cable-loss (dB)			
A24-C1	Surface Mount integral chip	-1.5 dBi	Fixed/Mobile	20 cm	0			
A24-F2NF	Omni-directional (Fiberglass base station)	2.1 dBi	Fixed/Mobile	20 cm	0			
A24-F3NF	Omni-directional (Fiberglass base station)	3.0 dBi	Fixed/Mobile	20 cm	0			
A24-F5NF	Omni-directional (Fiberglass base station)	5.0 dBi	Fixed/Mobile	20 cm	0			
A24-F8NF	Omni-directional (Fiberglass base station)	8.0 dBi	Fixed	2 m	2.7			
A24-F9NF	Omni-directional (Fiberglass base station)	9.5 dBi	Fixed	2 m	4.2			
A24-F10NF	Omni-directional (Fiberglass base station)	10.0 dBi	Fixed	2 m	4.7			
A24-F12NF	Omni-directional (Fiberglass base station)	12.0 dBi	Fixed	2 m	6.7			
A24-F15NF	Omni-directional (Fiberglass base station)	15.0 dBi	Fixed	2 m	9.7		XXX	
A24-W7NF	Omni-directional (Base station)	7.2 dBi	Fixed	2 m	2.2			
A24-M7NF	Omni-directional (Mag-mount base station)	7.2 dBi	Fixed	2 m	2.2			
PANEL CLASS ANTENNAS								
Part Number	Type (Description)	Gain	Application*	Min. Separation Required	Cable-loss (dB)			
A24-P8SF	Flat Panel	8.5 dBi	Fixed	2 m	5.5			
A24-P8NF	Flat Panel	8.5 dBi	Fixed	2 m	5.5			
A24-P13NF	Flat Panel	13.0 dBi	Fixed	2 m	10			
A24-P14NF	Flat Panel	14.0 dBi	Fixed	2 m	11			
A24-P15NF	Flat Panel	15.0 dBi	Fixed	2 m	12			
A24-P16NF	Flat Panel	16.0 dBi	Fixed	2 m	13			
A24-P19NF	Flat Panel	19.0 dBi	Fixed	2 m	16		XXX	