



FlexUSB

2x2 MIMO USB-Powered CPE



Ultra Low Cost



iFlex & Flex mARC Compatible



Advanced Driver Support



Super Fast 300Mbps



Compatible with
virtually all 802.11n
Base Stations



Powerful 2x2 mimo
CPE delivers data
rates up to 300 Mbps



USB 2.0

USB 2.0 I/O for connectivity
to the Arc iFlex and Flex
mARC products

Pair with the Flex mARC or iFlex Indoor
units for the ultimate cost-effective,
end-to-end, split architecture solution.



Flex mARC



iFlex

The FlexUSB may also be connected
directly to the customer's computer or
laptop for the most economical CPE
installation – compatible with all major
operating systems.



Specifications



Radio Performance

	<i>FlexUSB 2</i>	<i>FlexUSB 5</i>
Operating Frequency	2.412 - 2.462 GHz	5.1 - 5.9 GHz*
TX Power (max)	24 dBm	
Operating Mode	2x2 MIMO: Client, Client WDS, Client Router	
Channel Size	20 MHz / 40 MHz	

	Data Rate	<i>FlexUSB 2</i>		<i>FlexUSB 5</i>	
		Avg. TX (+/- 2 dBm)	RX Sensitivity (+/- 2dBm)	Avg. TX (+/- 2 dBm)	RX Sensitivity (+/- 2dBm)
802.11 b/g (FU 2) 802.11 a (FU 5)	1-24 Mbps	24 dBm	-97 dBm	24 dBm	-97 dBm
	36 Mbps	22 dBm	-90 dBm	22 dBm	-90 dBm
	48 Mbps	20 dBm	-86 dBm	20 dBm	-86 dBm
	54 Mbps	19 dBm	-78 dBm	19 dBm	-78 dBm
802.11 n	MCS0	24 dBm	-97 dBm	23 dBm	-96 dBm
	MCS1	24 dBm	-96 dBm	23 dBm	-95 dBm
	MCS2	24 dBm	-93 dBm	23 dBm	-92 dBm
	MCS3	22 dBm	-91 dBm	21 dBm	-90 dBm
	MCS4	21 dBm	-87 dBm	20 dBm	-86 dBm
	MCS5	20 dBm	-84 dBm	19 dBm	-83 dBm
	MCS6	20 dBm	-78 dBm	19 dBm	-77 dBm
	MCS7	20 dBm	-75 dBm	18 dBm	-74 dBm
	MCS8	24 dBm	-97 dBm	23 dBm	-96 dBm
	MCS9	24 dBm	-96 dBm	23 dBm	-95 dBm
	MCS10	24 dBm	-93 dBm	23 dBm	-92 dBm
	MCS11	22 dBm	-91 dBm	21 dBm	-90 dBm
	MCS12	21 dBm	-87 dBm	20 dBm	-86 dBm
	MCS13	20 dBm	-84 dBm	19 dBm	-83 dBm
	MCS14	20 dBm	-78 dBm	19 dBm	-77 dBm
	MCS15	20 dBm	-75 dBm	18 dBm	-74 dBm

Physical / Environmental

Dimensions	7.5 x 7.5 x 1.5 in (19 x 19 x 3.8 cm)
Weight	2.5 lb (1.1 kg)
External I/O	1 x USB 2.0 (type-B)
Operating Temperature	-30° C - 70 °C
Operating Humidity	5 - 95% (condensing)
Input Voltage	5V +/- 0.5V (via USB)
Power Consumption	2.5 W (max)
Enclosure	UV Stabilized Plastic
Mounting	Pole and Wall Mounting Kit Included
Power Supply	n/a - powered by USB (5 m type-B to type-A cable included) 10 m active repeater cable optional
Regulatory Compliance	FCC Part 15.247, IC RS210, CE

*country dependent

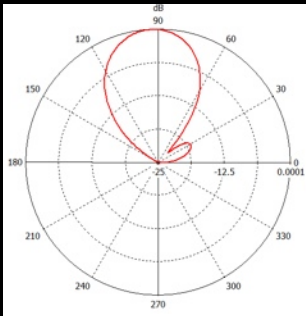
Antenna Performance – integrated 2x2 MIMO Antenna

	<i>FlexUSB 2</i>	<i>FlexUSB 5</i>
Gain	15 dBi	18 dBi
3dB Beamwidth	Vertical: 30° Horizontal: 30°	Vertical: 30° Horizontal: 15°
Polarization	Dual Linear	Dual Linear
Max VSWR	1.5:1	1.5:1
Cross-pol Isolation	23 dB min	22 dB min

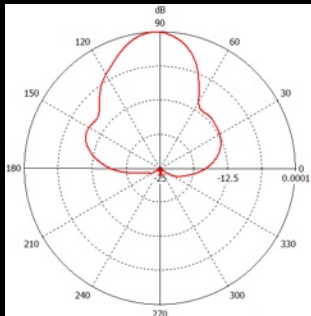
FlexUSB 2 - Antenna Patterns

Vertical Polarity

Azimuth

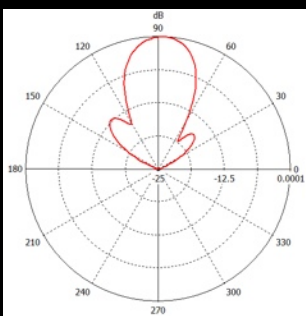


Elevation

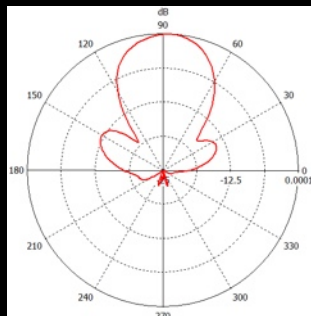


Horizontal Polarity

Azimuth



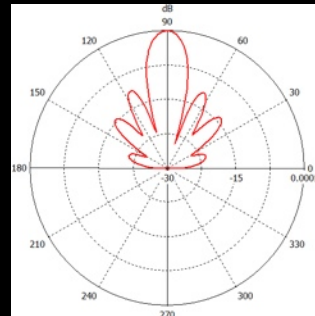
Elevation



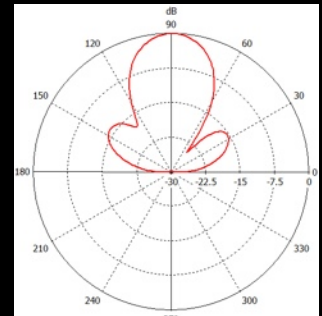
FlexUSB 5 - Antenna Patterns

Vertical Polarity

Azimuth

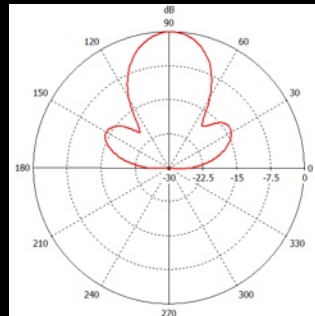


Elevation

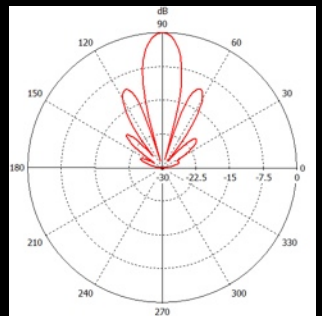


Horizontal Polarity

Azimuth



Elevation



Slide out I/O access door allows for easy and clean cable routing



Tiltable locking mounting system



Wall or pole mountable for versatile installation environments

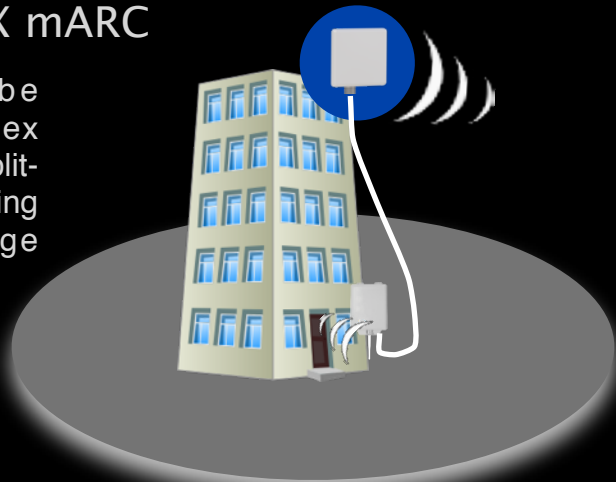


Sleek (7x7 in.), UV stable enclosure allows for clean, inconspicuous installations

Application Examples

FlexUSB with FLEX mARC

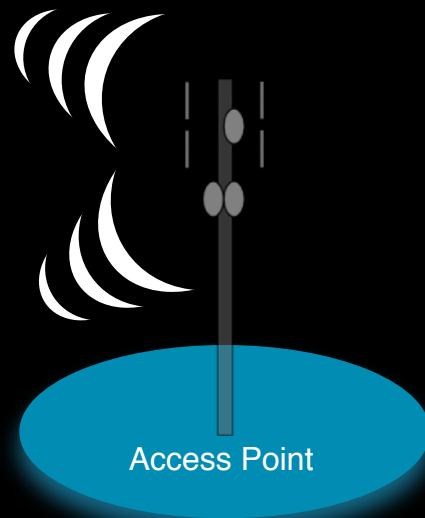
The *FlexUSB* can be combined with the Flex mARC for the ultimate split-system installation providing cost-effective coverage inside the premise.



FlexUSB as Residential Installation

For the ultimate cost-effective CPE solution, the *FlexUSB* can be installed on the customer premises and routed directly to the customer PC or laptop via USB cable. (5 m USB cable is included)

*10m active repeater cable sold separately



FlexUSB with iFlex Indoor AP

Coupled with the iFlex Indoor AP device, the *FlexUSB* can be powered by the included USB cable, providing a end-to-end cost effective split solution for relaying the carrier signal inside the customer premise, without the need for additional networking equipment.

