MikroTik Antenna D-5G-30D3-PA

Quick setup guide and warranty information

Package contents

A*
*Packed separately
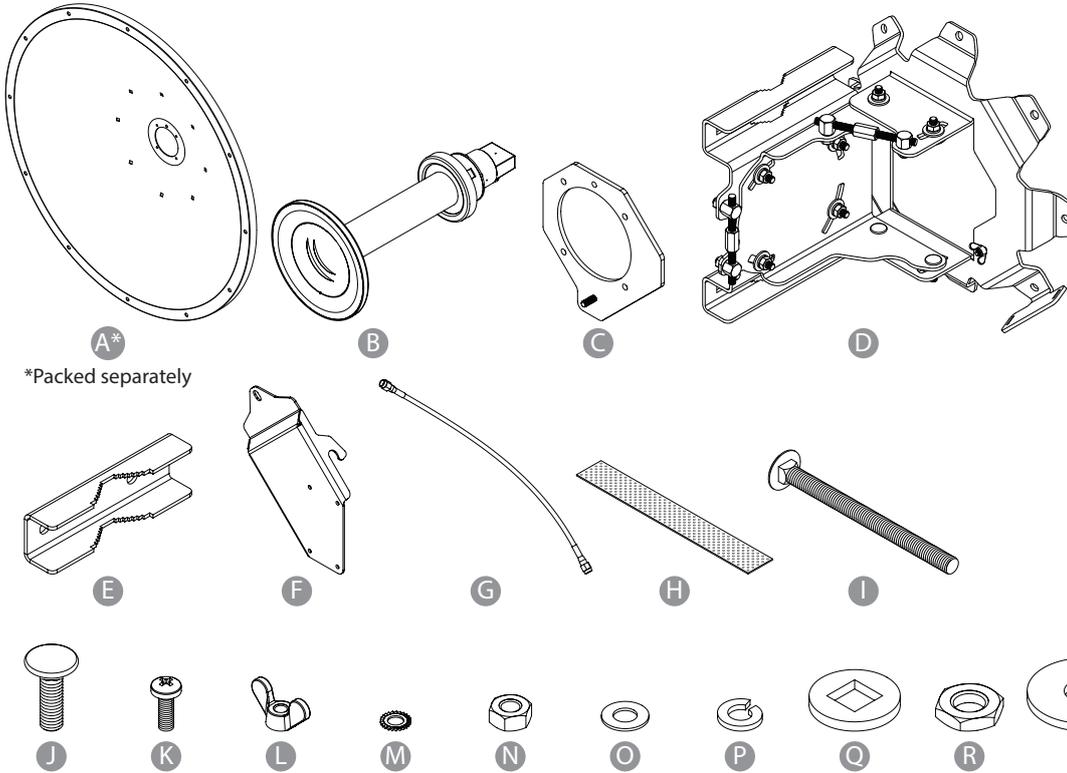
ITEM	DESCRIPTION	QTY
A	Parabolic Dish	1
B	Antenna Feed	1
C	Feed Bracket	1
D	Mounting Bracket	1
E	Pole Clamp	2
F	Case Holder	1
G	RF Cable	2
H	Self-Bonding Tape Slice	2
I	M10x130 Bolt	4
J	M6x20 Bolt	16
K	M4x12 Bolt	4
L	M4 Wing Nut	2
M	M4 Serrated Washer	5
N	M6 Nut	20
O	M6 Washer	12
P	M6 Spring Lock Washer	16
Q	M10 Square Washer	4
R	M10 Jam Nut	4
S	M10 Fender Washer	4
T	M10 Spring Lock Washer	4
U	M10 Nut	4

MikroTik Antenna assembly preview
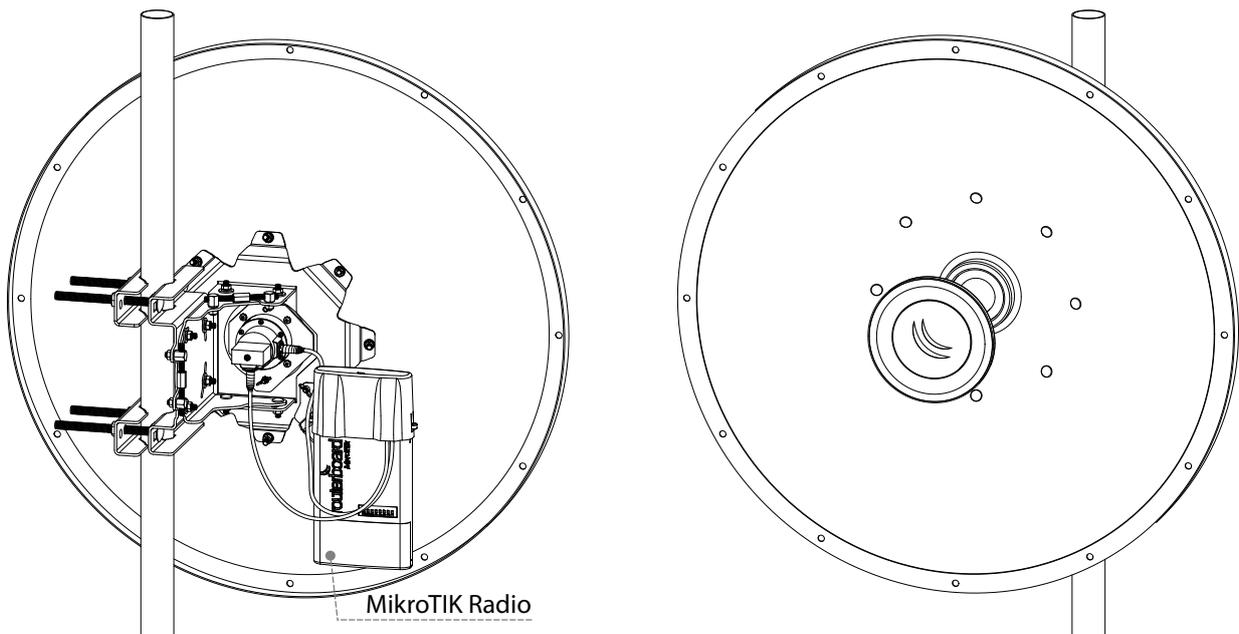
MikroTIK Radio

back*

front

*The preview is valid if a MikroTik RB900 series outdoor
device (sold separately) is installed.

Installation Guide

0. Items Required

• 10mm Wrench • 17mm Wrench • PH2 Screw Driver • This guide is written to be used with a MikroTik RB900 series outdoor device (sold separately) •
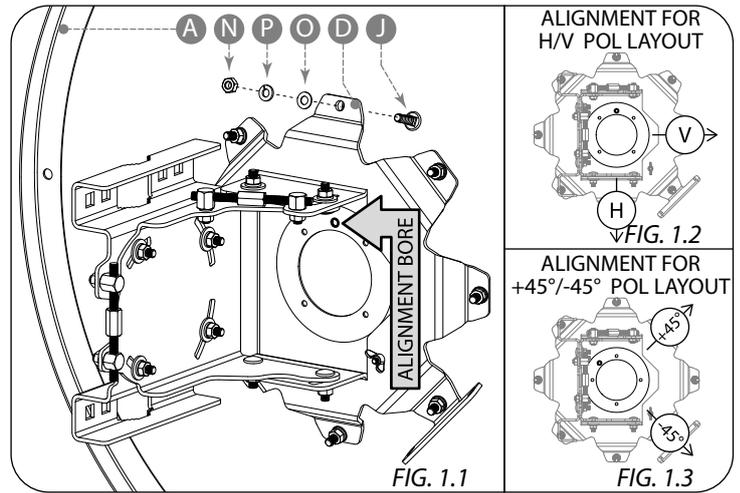
1. Install Mounting Bracket to Parabolic Dish
Polarization slant option available - see instruction on www.routerboard.com

Install Mounting Bracket [D] to Parabolic Dish [A] using:
[J] M6x20 Bolt x 8 pcs;
[O] M6 Washer x 8 pcs;
[P] M6 Spring Lock Washer x 8 pcs;
[N] M6 Nut x 8 pcs.

Important:
• Align Parabolic Dish [A] to get H/V polarization layout - see Figure 1.1 & 1.2 or +45°/-45° polarization layout - see Figure 1.2;
• M6 Nut [N] tightening torque must be approximately 5 Nm.

ALIGNMENT BORE

FIG. 1.1

ALIGNMENT FOR H/V POL LAYOUT

V

H

↓*FIG. 1.2*

ALIGNMENT FOR +45°/-45° POL LAYOUT

+45°

-45°

FIG. 1.3

2. Install Antenna Feed

Install Antenna Feed [B] to Parabolic Dish [A] using:
[C] Feed Bracket x 1 pc;
[K] M4x12 Bolt x 4 pcs;
[M] M4 Serrated Washer x 4 pcs.

Install grounding fasteners:
[L] M6 Wing Nut x 1 pc;
[M] M4 Serrated Washer x 1 pc.

Important:
• Antenna Feed [B] and Feed Bracket [C] must be aligned respectively to the hole in the Parabolic Dish [A] - see Fig. 2;
• M4x12 Bolt [K] tightening torque must be approximately 2 Nm.


FIG. 2
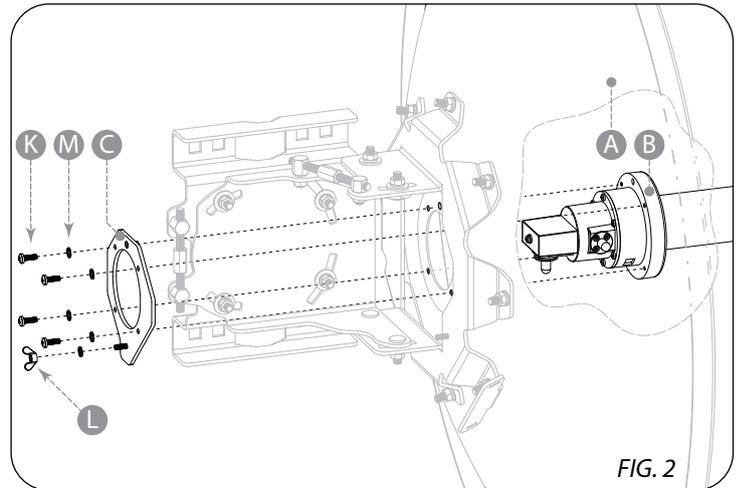
3. Attach MikroTik Radio to Mounting Bracket

Attach a MikroTik RB900 series outdoor device to Case Holder [F] using:
[-] M3x8 Bolt x 4 pcs (comes with MikroTik Radio) - see Fig. 3.1.

Attach Case Holder [F] to Mounting Bracket [D] by fitting Case Holder's hinges into the Back Plate's flange - see Fig. 3.2. Secure Case Holder using:
[L] M4 Wing Nut x 1 pc.

Important:
• M3x8 Bolt [-] tightening torque must be approximately 1.2 Nm.

F   M3x8   L

FIG. 3.1

D

FIG. 3.2
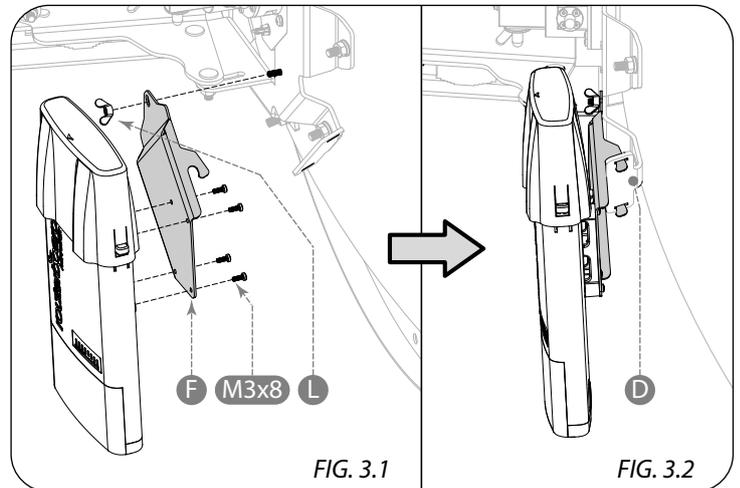
4. Install RF Cables

Remove the cover from MikroTIK Radio and install the RF Cables [G]. Connect vertical polarization (arrow V) to CH0, horizontal (arrow H) to CH1 - see Fig. 4.1. Fig. 4.2 show cable install for +45°/-45° polarization layout.

Insulate the RF Cable [G] ends which are connected to Antenna Feed [B] by using: [H] Self-Bonding Tape Slice x 2pcs.
• Remove the plastic liner from both sides;
• Stretch the tape to 2/3 of its width;
• Apply half-lapped layers clockwise.
The RF Cable [G] ends which are connected to MikroTik Radio are insulated by the cover.

Fit back the MikroTik Radio cover.

Important:
• RF Cables [G] connector tightening torque must be approximately 0.5 Nm.


FIG. 4.1

RF CABLE INSTALL INSTRUCTION FOR +45°/-45° POLARIZATION LAYOUT

+45° ⟶ CH1
-45° ⟶ CH0

+45° ⟶ CH0
-45° ⟶ CH1

FIG. 4.2
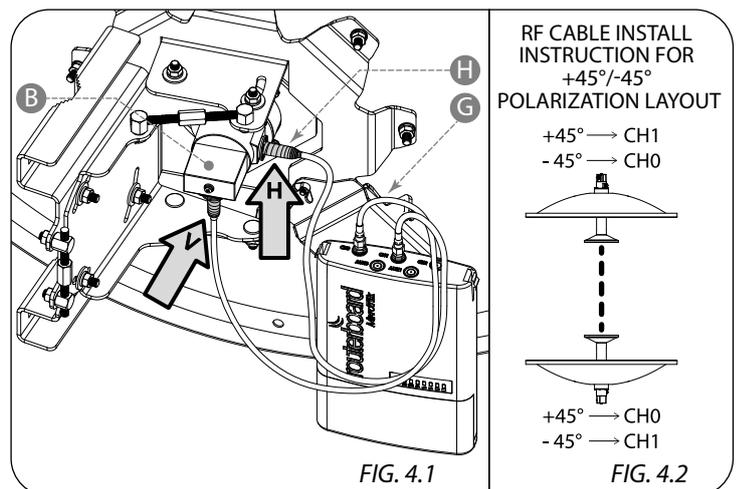
5. Install Pole Fasteners

Determine the pole diameter which MikroTik Antenna will be attached to.
• If the pole diameter is less than 60mm(2.375") use the hole pattern from Fig. 5.1 to install the M10x130 Bolts [I];
• If the pole diameter is 60 - 100mm (max) use the hole pattern from Fig. 5.2.

Install M10x130 Bolt [I] x 4 pcs using:
[Q] M10 Square Washer x 4 pcs;
[R] M10 Jam Nut x 4 pcs.

Important:
•M10 Jam Nut [R] tightening torque must be approximately 4 Nm.

IF POLE Ø < 60mm

FIG. 5.1

IF POLE Ø > 60mm

R Q I

FIG. 5.2

FIG. 5.3
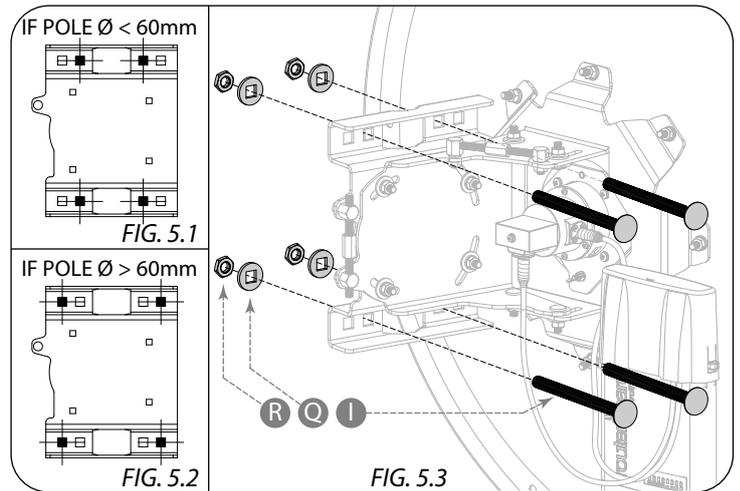
6. Attach Antenna to Pole

MikroTik Antenna is design to fit the pole diameter up to 100mm(3.9").

Attach MikroTik Antenna to pole as shown in Fig. 6 using:
[E] Pole Clamp x 2 pcs;
[S] M10 Fender Washer x 4 pcs;
[T] M10 Spring Lock Washer x 4 pcs;
[U] M10 Nut x 4 pcs.

Important:
• M10 Nuts [U] tightening torque must be approximately 25 Nm.
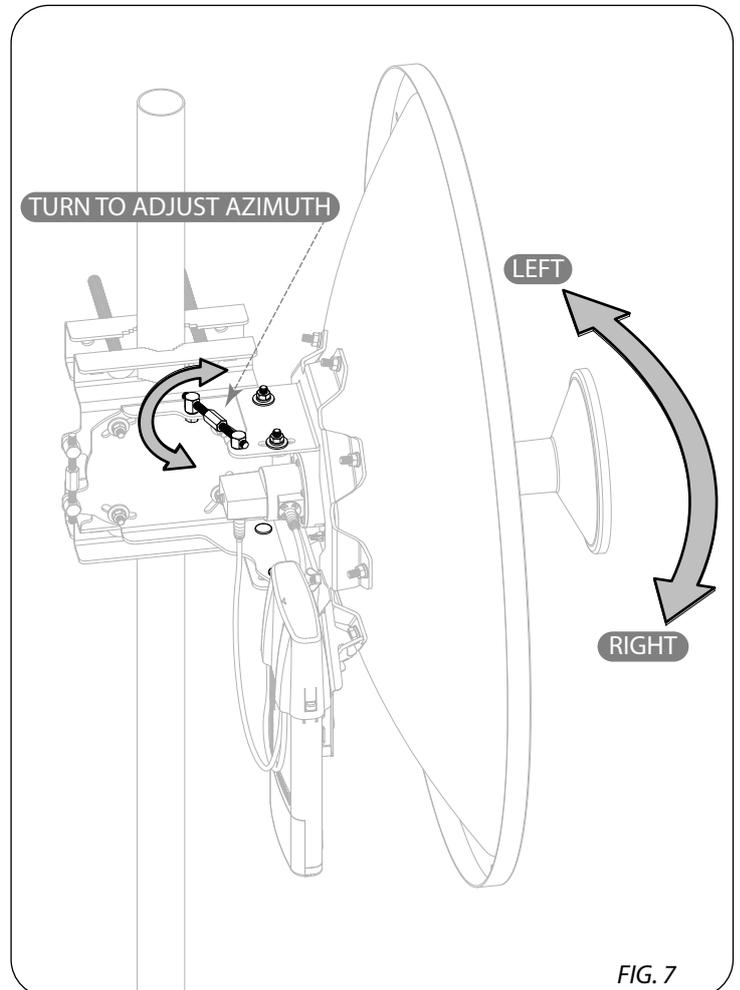
E
S
T
U

Ø$_{MAX}$ = 100mm

FIG. 6
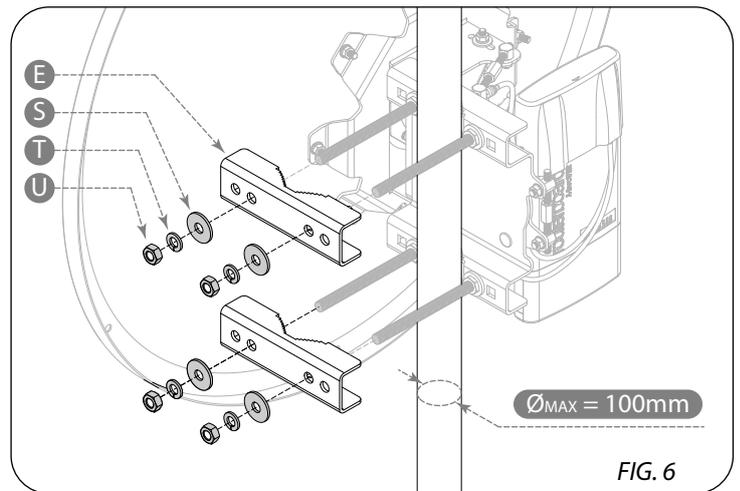
7. Adjust Azimuth

Loosen the fasteners on Mounting Bracket [D], which lock the azimuth angle.

Turn the horizontal Alignment Mechanism to precisely adjust the azimuth - see Fig. 7.

After setting the azimuth, tighten firmly the corresponding fasteners on the Mounting Bracket [D].

Important:
• Use 10mm Wrench to turn Adjustment Mechanism;
• M6 Nuts [Q] tightening torque must be approximately 7 Nm.

TURN TO ADJUST AZIMUTH

LEFT

RIGHT

FIG. 7

8. Adjust Elevation

Loosen the fasteners on Mounting Bracket [D], which lock the elevation angle.

Turn the vertical Alignment Mechanism to precisely adjust the elevation
 - see Fig. 8.

After setting the elevation, tighten firmly the corresponding fasteners on the Mounting Bracket [D].

Important:
• Use 10mm Wrench to turn Adjustment Mechanism;
• M6 Nuts [Q] tightening torque must be approximately 7 Nm.

TURN TO ADJUST ELEVATION

UP

DOWN
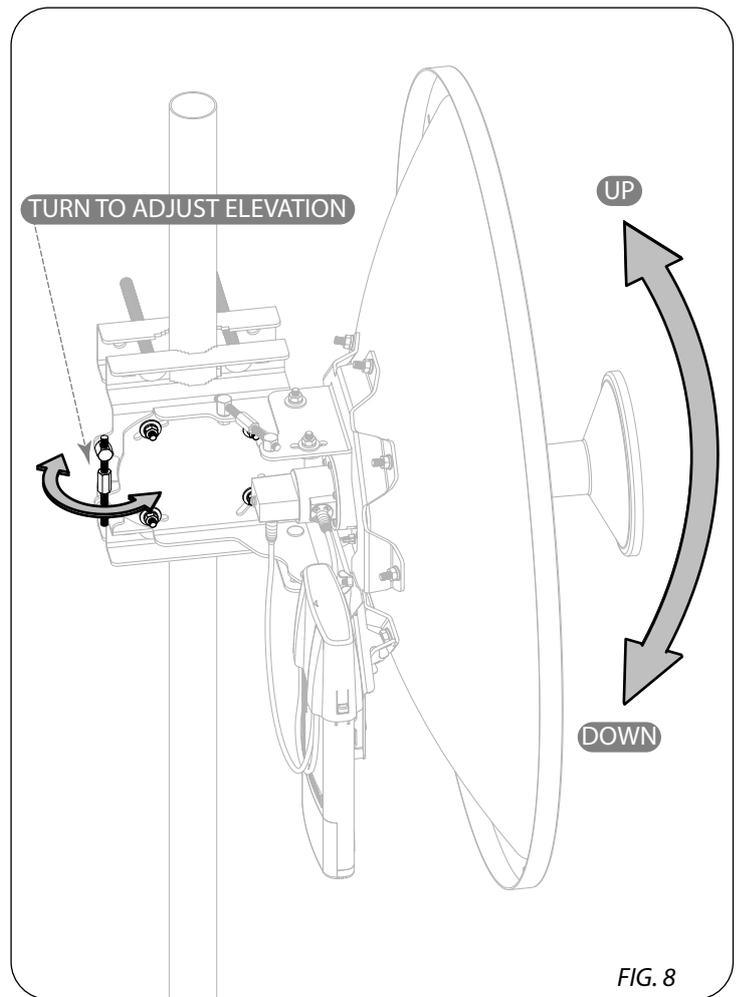
FIG. 8

Copyright and Warranty information

Hardware. MikroTik warrants all RouterBOARD series equipment for the term of twelve (12) months from the shipping date to be free of defects in materials and workmanship under normal use and service, except in case of damage caused by mechanical, electrical or other accidental or intended damages caused by improper use or due to wind, rain, fire or other acts of nature.

To return failed units to MikroTik, you must perform the following RMA (Return Merchandise Authorization) procedure. Follow the instructions below to save time, efforts, avoid costs, and improve the speed of the RMA process.

1. If you have purchased your product from a MikroTik Reseller, please contact the Reseller company regarding all warranty and repair issues, the following instructions apply ONLY if you purchased your equipment directly from MikroTik in Latvia.
2. MikroTik does not offer repairs for products that are not covered by warranty. Exceptions can be made for: CCR1016-12G, CCR1016-12G-BU, CCR1036-12G-4S, RB1100, RB1100AH, RB1100AHx2, RB1200, RB600, RB600A and RB800 as a paid service (fees apply).
3. Out-of-warranty devices and devices not covered by warranty sent to Mikrotik will be returned to the sender at sender's cost. If the customer has not organized return of such rejected devices within 12 months from the day of arrival, MikroTik has the right to discard them.

RMA Instructions are located on our webpage here: http://rma.mikrotik.com