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1. TECHNICAL SUPPORT

For general contact, technical support, to report documentation errors and to order manuals, contact BeanAir[®] Technical Support Center (BTSC) at: tech-support@beanair.com

For detailed information about where you can buy the BeanAir[®] equipment/software or for recommendations on accessories and components visit: www.beanair.com

To register for product news and announcements or for product questions contact BeanAir's Technical Support Center (BTSC).

Our aim is to make this user manual as helpful as possible. Please keep us informed of your comments and suggestions for improvements. BeanAir® appreciates feedback from

2. VISUAL SYMBOLS DEFINITION

Symbols	Definition
	Caution or Warning – Alerts the user with important information about BeanAir [®] wireless IOT Sensors. if this information is not followed, the equipment /software may fail or malfunction
	Danger – This information MUST be followed if not you may damage the equipment permanently or bodily injury may occur.
Ù	Tip or Information – Provides advice and suggestions that may be useful when installing BeanAir Wireless IOT Sensors.



BeanGateway"

3. ACRONYMS AND ABREVIATIONS

AES	Advanced Encryption Standard
CCA	Clear Channel Assessment
CSMA/CA	Carrier Sense Multiple Access/Collision Avoidance
GTS	Guaranteed Time-Slot
kSps	Kilo samples per second
LDCDA	Low duty cycle data acquisition
LLC	Logical Link Control
LQI	Link quality indicator
MAC	Media Access Control
PER	Packet error rate
POE	Power Over Ethernet
RF	Radio Frequency
SD	Secure Digital
UPS	Uninterruptible power supply
USB OTG	USB On The Go
WDAQ	Wireless DAQ
WSN	Wireless Sensor Networks

4. QUICK PRODUCT DESCRIPTION

4.1 UNBOX YOUR BEANGATEWAY® 2.4GHZ 4G

Open your BeanGateway® Box The 2.4GHz 4G Gateway is available in two versions:

BeanGateway 🚉

QUICKSTART



• BGTW-4G-MPWR-OUT, Mains Power supply



BGTW-4G-SOLAR-OUT, Solar Power Supply

It is provided with a 4G antenna, WiFi antenna, external cables for both WiFi & 4G/LTE antennas and a power supply plug (only available with the mains power version).

4.2 ACCESSORIES DESCRIPTION

In addition to the BeanGateway® you will find inside the packet a list of accessories:

- 4G Antenna
- WiFi Antenna
- External cable for Wifi antenna
- External cable for 4G/LTE antenna
- Power supply plug (only available with the mains power version)

4.2 ACCESSORIES DESCRIPTION



For more info on the accessories and its specification please refer to the user manual

5. INSTALLATION

1 : Please follow the following wiring code instructions to correctly build your own AC Power supply

MAINS POWER SUPPLY (REF: BGTW-4G-MPWR-OUT)

The previous hardware version comes with a Female Socket and a Male Plug





• SOLAR POWER SUPPLY (REF: BGTW-4G-SOLAR-OUT)



DC Power:

The solar power controller can work between 13VDC to 20VDC, user can use an AC/DC power adapter in this voltage rating.

If the DC Voltage is less than 13VDC, the provided voltage will not be enough to power the Solar Power Manager

2: Use the provided antennas cables and power supply cable to connect to the appropriate connectors as shown below in the figure.



BeanGateway® 242

3. Open the box enclosure and use the Ethernet cable to connect your Laptop to the router in order to configure the IoT Gateway and get it ready for remote monitoring, as well to insert SIM card. Use a screwdriver to remove the black lid and properly insert the SIM card.



4. Don't forget to turn On the switch mode box by pushing the ON/OFF push buton at the top left corner, in order to charge the Lead-Acid Battery and get the gateway ready for configuration.







BGTW-4G-MPWR-OUT, MAINS POWER SUPPLY





BGTW-4G-SOLAR-OUT, SOLAR POWER SUP-





4. Use an ethernet cable to connect the router inside the IOT Gateway[®] to your laptop.



• Plug the power adapter to your 4G Router, then use an ethernet cable and plug it into the LAN Ethernet port of your Configuration PC.





6. DEFAULT SETTINGS

THE DEFAULT 4G GATEWAY® IP ADDRESS IS 192.168.1.1

Assign a static IP address to your PC within the same subnetwork as your BeanGateway[®]
 In the search bar tap change ethernet settings, then click on open



Click on change Adapter settings

Ethernet

Network 7 Connected Related settings

Change adapter options

Change advanced sharing options





• Right click on the Etherner device with is connected to your IOT Gateway, choose Propreties



• Double click on Internet Protocol Version4 (TCP/IPv4)

This connection uses the following items:





- Enter the flowing settings:
 - Enter any ip in the form of 192.168.1.XXX where XXX is a number from 2 to 254 (except 243 which is the router IP address).
 - Enter 255.255.255.0 for your subnet mask
 - The default 4G gateway must come with the same IP address that your 4G Router **192.168.1.243**
 - Finally enter primary DNS server IP, the same than your 4G Router IP 192.168.1.243
 - Click on OK validate your configuration

nternet Protocol Version & (TCP/IDu	A) Properties	×		
internet Protocol Version 4 (TCP/IPV	4) Properties	~		
General				
You can get IP settings assigned aut this capability. Otherwise, you need for the appropriate IP settings.	omatically if your network supports to ask your network administrator			
Obtain an IP address automatic	ally			
Use the following IP address:				
IP address:	192 . 168 . 1 . 244		 	 Your PC IP address
Subnet mask:	255.255.255.0			
Default gateway:	192 . 168 . 1 . 243			Your router IP address
Obtain DNS server address aut	omatically			
Use the following DNS server as	ddresses:			
Preferred DNS server:	192 . 168 . 1 . 243			
Alternate DNS server:				
Validate settings upon exit	Advanced			
	OK Cancel			

• Once your PC and IOT Gaetway[®] are connected to the same network, you can easily have access to the router.



7. HOW TO SETUP A REMOTE ACCESS IN 4 STEPS (EXAMPLE OF IP FORWARDING METHOD)



Before to start to configure your remote access, make sure your Office router/ASDL Box should come with Fixed Public IP address to avoid losing the BeanGateway[®] whenever it reboots for any reason.



How to get a fixed public IP:

• If you are using an ADSL Router at your office: you can ask to your ADSL Router provider to

allocate you a fixed public IP

• You can purchase a Data SIM card with fixed public IP from your ISP (Example: Olivia Wireless)

• If you are using a standard SIM card, some PORTS can be blocked by the ISP.



It's not mandatory to use a SIM card with fixed public IP on the monitoring site.



7.1 STEP 1: AT YOUR OFFICE, CONFIGURE YOUR FIREWALL FOR REMOTE ACCESS

You have to enable Routing and Remote Access option for both Private and Public networks, communication through the firewall.

Allow apps to communicate through Windows Defend	der Firewall	
To add, change, or remove allowed apps and ports, click Change settin	.gs.	
What are the risks of allowing an app to communicate?	Cha	nge settir
Allowed apps and features:		
Name	Private	Public
Remote Assistance	~	~
Remote Desktop		
Remote Desktop (WebSocket)		
Remote Event Log Management		
Remote Event Monitor		
Remote Scheduled Tasks Management		
Remote Service Management		
Remote Shutdown		
Remote Volume Management		
Routing and Remote Access		
THE CASE OF A CA		_

7.2 STEP 2: AT YOUR OFFICE, CONFIGURE IP FORWARDING RULES

7.2.1 Example with ADSL MODEM (NAT ROUTER Configuration)

1. From your Office PC, search for your Public IP address (ex: search for MyIP on Google).





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Make sure that no antivirus/firewall is blocking the network activity between the BeanGateway[®] and the BeanScape[®] software.

2• Setup a Port Forwarding configuration on your Router (each router brand has its own configuration interface).

Example 1: GlobalNet ADSL Router Webserver configuration (North Africa)

3 net	Net Device	e Info	Basic Setup	Advanced	Setup V
Quick Setup	NAT Virtual Serv	vers	the server IP address ar	nd click "Apply/Save" to	o forward IP packets fo
WAN Setup	the same value as Remaining numbe	"Internal Por	t Start". at can be configured	:26	
Virtual Servers			in the configured		
Dort Triggering	Choose All Inte	erface			
DM7 Host	Use Interface	ppp us	b/ppp3	~	
ID Address Man	Service Name:	ppp_uu			
ALC/Docs Through	O Select a Servic	e: Select (One		~
ALG/Pass-Through	Custom Servic	Berlin Rem	note Access		
LAN	Server IP Address:	192.168.1.	69		
Wireless Demontral Control					
Parental Control	Enable NAT Loo	pback			
Home Networking					
	External Port Star	tExternal Po	rt End Protocol	Internal Port Star	t Internal Port End
	5313	5313	TCP/UDP >	5313	5313

QUICKSTART





Example 2: Fritze Box (Germany)

Entry	FRITZ!Box 7	560				FRITZINAS	MyFRITZI		
CIGATION.									0
Quantiew	Port Sharing	FRITZIBox Services DynDNS	VPN						
Internet ^	All devices connected w such connections.	ith the FRITZIBox are safe from unauthor	ized access from the internet. F	lowever, certain applications (like online gam	es) must be accessible for other	users in the internet. By c	onfiguring port sharing y	you can all	ow
Online Monitor	Device / Name	IP Address	Sharing	Port Assigned Externally IPv4	Port Assigned Externally IPv6	Independent Port Shari	ng		1
Account Information Filters	DESKTOP-TNL8TSI	192.168.178.61 ::542f:1267:ed7d:d4f9	🥝 port	5313		0 enabled		0	ĸ
Permit Access							Add Device for Sharing	Bata	ch.
DSL Information	The setting for "Indeper	ident port sharing" can be disabled for al	I devices that have not request	ed any port sharing.				Disa	ole
Wi-Fi							Apply	Cance	
) Smart Home Diagnostics) System 1 Wizards									

Name	port		
Protocol	ТСР		•
Port to device	5313 th	rough 531	3
Port requested externa (IPv4 only)	illy 5313		
IPv4 address in the inte	rnet		
IPv4 address in the inte 83.135.68.244 Port assigned externally	rnet		
IPv4 address in the inte 83.135.68.244 Port assigned externally 5313	rnet		
IPv4 address in the inte 83.135.68.244 Port assigned externally 5313 through port	rnet		

Please be aware if the public IP Address of your ADSL Box is not fixed, you will lose the connection between the Bean-Gateway[®] and your Monitoring PC (at the office), whenever the router reboots. If you are not sure to have a fixed public IP, we suggest you use a 4G Router and a SIM Card with a fixed public IP.

7.2.2 Example of 4G Router (SIM CARD Provider Olivia wireless)

if you have a 4G router with a SIM card at your office, make sure that the SIM card comes with a Fixed Public IP address and your ISP provider doesn't restrict any port numbers.

In this example we will work with Olivia Wireless SIM card which comes with a Fixed public IP address.

7.2.2.1 System Architecture

Olivia is using a Public Gateway in its system architecture, in order to allow users on the internet to reach the SIM directly.

The Public Gateway is simply a port forward service that's why you have to create a port forwarding rules on both SIM Card platform and also on your office router.



Please follow these steps to correctly configure the system.



• Step 1: Verify that Public IP routes service is enabled on your SIM card interface.

• We assume that you have already purchased the Fixed public IP service when you set up the payment method.

To verify that the Fixed Public IP address service is enabled, please login to your SIM Card platform

o ⊳ c	Д	oliviawireless.io/#sim/
Olivia		
Login Enter your email address and password to lo Email Address	ogin.	
someone@gmail.com		
Password (forgot?)		
Sign In		

• Then go to the tab SIM Cards.

Olivia		to Oceanor I de Unio				
Dashboard Sim Cards St	ipport 🗧 Order Silvi cards 📕 r	ay company U Help				Logged in as
• Register SIM card						
Registered SIM Cards						
search by keyword search						
Export						
SIM Barcode	Device Name	SIM State	APN	Rate plan	Activation Date	Data Used
891030000001886354	Test_SIM-CARD	Active	rh	Selfservice SIM	03/06/2022	150MB



• You should see "Public IP Route" noted under "Deployed Network Service" on the SIM cards details page.

Expiration Date
03/06/2023
Deployed Network Service
Public IP Route

- If it's not the case you have to enable it before proceeding.
- Step 2: Setup Port Forwarding on the Public IP Gateway (SIM Card)
 - Navigate to "SIM card" and click on the SIM barcode

Dlivia				
📐 Dashboard	🗢 SIM Cards 🔍 Support	🍃 Order SIM cards	🚦 My Company	Help
• Register SIM	card			
Registered	SIM Cards			
search by keyword	search			
Export				
SIM Barcode		Device Name	SIMS	State
(1) 89103000000	01886354	Test_SIM-CARD	► A	ctive



• Then click on ADD Public IP Route

Top-ups	
Order ID	
No top-ups available	
Add Public IP Port Route	

Inbound access via fixed IP

• Give your route a recognizable name, Enter the port you would like to reach on the SIM/ Router then select the protocol (usually TCP) and click 'Submit'.

• Create the PORT ID of your SIM card (avoid ports 22, 80 and 443)

Add Route	
Route Name *	
Berlin Site	
Port SIM Side *	
5320	
Transport layer *	
ТСР	~



• A random port on the gateway will now be locked to be used with your SIM card

Routes Name	SIM IP	Port SIM Side	Public IP:Port	Delete
Berlin Site	10.0.17.15	5320	18.158.125.169:41988	Û



IMPORTANT:

• The PORT ID of your SIM card will be used to create the IP Forwarding rules on your LTE Router running at the office.

• Note the Public IP and the PORT number, it will be used during your BeanGateway[®] configuration on your monitoring site.

• Step 3: Install the SIM Card on the router and Configure the Mobile Network

In this example we are using Teltonika Router RUT240, but the steps are similar for different types of routers.

Insert the SIM Card into your Router then use the corresponding User Name and Password to log in.

Then Navigate to Network --> Mobile, then Enter the following configuration

- APN: --custom-
- Custom APN: rh

And Keep all the other settings on default then click on save.



BeanGateway"

- Step 4: Install the SIM Card on the router and Configure the Mobile Network
 - Login to your router, then navigate to Network --> Firewall --> Port Forward

TELTONIK	4 Status	Netwo	ork -	Servi	ces 🔹 Syst	tem -	
		Mobi	le				FW ve
General Settings	Port Forwarding	WAN LAN			stom Rules	DDOS P	revention
Firewall - Port F	orwarding	VLAN Wire	N less				
Port forwarding allows ren	mote computers on t	he Firev	vall		ecific computer	or service w	ithin the private
Port Forwarding Ru	iles	Rout Load	ing Balan	cing			
Name	P	rotocol	Sourc	e	Via		Destination
Fnahla SSH WAN PA		CP	From	any host	To any route	er IP at port	Forward to IF

Scroll down to New Port Forward Rule and set the following

- Name: Any recognizable name
- Protocol: TCP+UDP
- External port (s): SIM Card PORT ID in our case 5320 (avoid ports 22, 80 and 443)
- Internal IP: Select the IP of your PC
- Internal port (s): Any port on which you want to access (Port used on BeanScape software) 5313

NAME	EXTERNAL PORT	INTERNAL IP ADDRESS	INTERNAL PORT
Forward	5320	192.158.1.31 (00:23:24:73:87:67)	5313



Make sure that the port forwarding rule is configured from WAN: External Port (or Source Zone) to LAN: Internal Port.



WH TELTONIK	A Status	Network -	Services - S	system -		Logout
Profile in use: default					FW ve	er.: RUT2XX_R_00.01.13.1
General Settings	Port Forwarding	Traffic Rules	Custom Rules	DDOS Prevention	Port Scan Prevention	Helpers
Secure Deut	Famula Fa	mund				
-irewall - Port	Forwards - Fo	rward				
his page allows you to	change advanced prop	perties of the port for	orwarding entry. Altho	ough, in most cases there	is no need to modify those s	ettings.
	E	nable 🔽				
	١	Name Forward				
	Pro	tocol TCP+UD	P ~			
	Source	zone 🔿 gre: gr	re tunnel:			
		O hotspo	ot:			
		O 12tp: 12	2tp:			
		O lan: la	n: 🛃 🔩 😤			
		O pptp: p	pptp:			
		O sstp:				
		O vpn: ope	envpn:			
		🔍 wan: wa	in: 🔍 ppp: 🔍 tun:	(empty) wan2: 💽		
	Source MAC addres	any	Đ			
	Source IP addres	anv				
	Source IF addres	ss city				
	Source po	rt any				
		Ian: la	in: •. • @			
			noto:			
			pp.p.			
		O sstp:				
		Vpn: c	openvpn:			
		Wan: w	wan: 🛃 ppp: 🛃 tu	in: (empty) wan2: 🔩		
	Internal IP addr	ress 192.168.1	1. 31 🗸			
	Internal	port 5313				
	Enable NAT loopb	ack 🔽				
	-	2022/021				

7.3 STEP 3: AT YOUR OFFICE, CONFIGURE THE PORT NUMBER ON YOUR BEANSCAPE®

On your office PC don't forget to put the BeanScape TCP port number the same as the internal Port TCP number chosen in the router port forwarding configuration rule.

	BeanScape Configuration	x	x		
NAME	Log Keen Alive Ann	BesnGateway configuration via Udp :		INTERNAL PORT	
Forward	TCP/UDP	Udp port : 53130 🚔	\sim	5313	
	System	Tcp port to listen : 5313 🗢			

If you change the default TCP port on BeanScape software to another port number different than 5313, you have to restart the server to establish the connection with the monitoring site.

7.4 STEP 4: BEANGATEWAY® CONFIGURATION ON THE MONITORING SITE

Now that you have your Public Fixed IP of your BeanScape[®] software running at your office. You can start to configure your BeanGateway[®] and LTE Router running on the monitoring site.

7.4.1 Sim card configuration

Use your browser on your PC and log in to the router using the following settings:

- IP address: 192.168.1.243 (tap it in google search bar)
- Username: admin | password: Beanair2020!

To configure your 4G/LTE Router go on Network then Click on Mobile



• Now configure your mobile settings as follow





General Network Operators Mobile Data Limit

Mobile Configuration

ň

Mobile	Configuration		Choose QMI connection type because PPP is slower than OMI
SIM 1			QMI option is highly recommended.
	Connection type Q1 Mode N4 Auto APN T Con	MI V AT V Passthrough and Bridge modes are <u>disabled</u> when mathematics enabled anection will be established automatically	Check Auto APN and the connection will be established automatically. Access Point Name (APN): is a configurable network identifier used by a mobile device when connecting to a GSM carrier
	PIN number 000	00	Enter the right PIN number and PUK code of your SIM card
	PUK code Dialing number *99	5/#	Used this field only if the SIM card's PIN number was used
	MTU 150	00	Choose 1500
	Service mode Au	utomatic ~ <	Choose Automatic as a service mode
	Deny data roaming 🔲	·	Uncheck Deny data roaming option
	Mobile Data On Demand		
		Enable 💌	
	No data	timeout (sec) 10	
	Force LTE network		
		Enable 💌	
		Reregister	
		Interval (sec) 300	
			Save

You can get the APN ID from your telecom operator provider

If an invalid PIN number was entered (i.e. the entered PIN does not match the one that was used to protect the SIM card), your SIM card will get blocked. To avoid such mishaps, it is highly advised to use an unprotected SIM. If you happen to insert a protected SIM and the PIN number is incorrect, your card won't get blocked immediately, although after a couple of reboots OR configuration saves it will.

7.4.2 Make sure the DHCP is enabled on your LTE router

BeanGateway"

LAN IP address should be 192.168.1.243 by default and if this is not the case for whatever reason ,you will need to set it back to 192.168.1.243 in the configuration panel you can find in the overview page

Local Network 🛙	₿	
IP / netmask	Configuration 243 / 255.255.255.0	
Clients connected	3	

TELTONI	KA Status Ne	twork - Services -	System -	Logout 🖻
LAN				
Configuration				
General Setup	Advanced Settings			
	IP address	192.168.1.243		
	IP netmask	255.255.255.0 •		
	IP broadcast			
DHCP Server				
General Setup	Advanced Settings			
	DHCP	Enable •		
	Start	100		
	Limit	143		
	Lease time	12	Hours •	
	Start IP address:	192.168.1.100		
	End IP address:	192.168.1.242		



7.4.3 BeanGateway[®] 2.4GHz configuration with Public IP of your Office PC

Now that your LTE Router is configured with your SIM card, it's time to configure correctly your BeanGateway[®] 2.4GHz

Right after connecting your BeanGateway[®] 2.4GHz to your PC via the LAN cable,

1. Right click on your BeanScape® software icon then click on Open



2. Switch to Expert view

Beanscane 2.4GHz

File	Conr	nection	Tools	Off.Data Analysis	View	Help
-		<u> </u>	<i>i</i> s		5	Standard view
		Conr	nectior	<u>ו</u>	🗸 E	xpert view

3. Navigate to Tools --> BeanGateway Ethernet/LAN config

📾 Beanscape 2.4GHz

File Conr	nection	Tools	Off.Data Analysis	View	Help
-01		Be	eanScape® configura	tion	
	Conr	A	larm Window		
No car		Be	eanGateway Ethernet,	/LAN Co	onfig.



4. Select your LAN card IP Address (192.168.1.244), then click on Localize

BeanGateway Ethernet/LAN configuration				
Localize BeanGateway				
~ ~		Localize		
192.168.1.244 LAN Card		×		

5. After Localization process, select your 4G BeanGateway® MAC ID

: Select > Panld : 0408, MacId : 00158D00000E0408

6. Check DHCP option to assign an automatic IP address to your BeanGateway[®], then click on validate

Configuration	
TCP/IP Configuration	
✓ DHCP Enabled	
BeanGateway TCP/IP	
	192.168.1
	255.255.255.0
	192.168.1243





7. On BeanScape[®] frame:

• Case 1 - If you are using a ADSL Router at your office

Make sure to allocate the Public IP of the PC Hosting Beanscape software (you will get your Public IP from step 2)

• In this case the Public IP is 188.106.107.201

Panid : 0408, Macid : 00158000000E0408 v	
Configuration	
TCP/IP Configuration	Keep Alive App Config
✓ DHCP Enabled	enabled :
BeanGateway TCP/IP	
IP address 1921681	
	KAA interval (ms) : 4000 😴
Sub network mask : [255.255.255.0	Max. retry nbr : 🛛 7 🔶
Default gateway IP : 192.168.1243	Validate
DNS Enabled DNS IP AUTO	
DNS	Configuration via Ethernet (UDP)
IP address :	enabled : 🔽
	Udp port : 53130 🗢
BeanScape	
Port : 5313 🗢	Validate
IP address : 188.106.107.201	
Domain name :	
Validate	Close

• Case 2 - If you are using a LTE Router with a Data SIM CARD (example of Olivia Wireless SIM CARD)

To forward data communication of your BeanGateway[®] to your Office PC, enter the Fixed Public IP address which was created on the SIM Card before and its corresponding TCP Port number.



Example of IP forwarding Rules created on the Router

Routes Name	SIM IP	Port SIM Side	Public IP.Port	Delete
Berlin Site	10.0.17.15	5320	18.158.125.169:41988	Û

BeanGateway Ethernet/LAN configuration	x	
Localize BeanGateway		
192.168.1.31 LAN Card		
Panid : 0777, Macid : 00158000000E0777 🗸 🗸		
Configuration		
TCP/IP Configuration	Keep Alive App Config	
✓ DHCP Enabled BeanGateway TCP/IP	enabled :	
IP address : 192.168.1	KAA interval (ma) :	
Sub network mask : 255.255.255.0	Max. retry nbr : 7	
Default gateway IP : 192.168.11_	Validate	
DNS Enabled DNS IP AUTO		
DNS	Configuration via Ethernet (UDP)	
IP address : [enabled : 🔽	Public IP:Port
ReanScane	Udp port : 53130 🗢	18.158.125.169:41988
Port : 41988 🚭	Validate	
IP address : 18158.125.169		
Domain name :		
Validate	Close	

0

Make sure to use the Fixed Public IP address and the TCP Port number which are created on the SIM Card rule.

Do Not use Google to search for your Public IP address, it will give you the IP address of the roaming ISP provider and the remote configuration will not work.



8. WHERE TO FIND MORE TECHNICAL INFORMATION?

For more technical litterature, please visit our White Paper Page:

Please refer to the BeanDevice[®] 2.4GHz EcoSensors user manual section for more information https://www.wireless-iot.beanair.com/files/UM-RF-03-ENG-EcoSensor-Wireless-Sensors-for-En-

For detailed information on the available Data Acquisition mode ,please refer to our technical note http://www.wireless-iot.beanair.com/files/TN-RF-008-Data-acquisition-modes-available-onthe-BeanDevice.pdf

Facing technical problems ? Contact our technical support team at : tech-support@beanair.com



