

# Bluetooth 5.1 Nano USB Adapter



Manual DN-30211 Rev.2

With the DIGITUS® Bluetooth USB Adapter, you can use the fast Bluetooth 5.1 standard with high transmission rates of up to 3 Mbps. This allows you to transmit files, images or music quickly and in high quality. The adapter can be used for mobile devices, for connections between computers, for connecting Bluetooth accessories of all kinds and is supported by the most common gaming consoles. These include controllers, headphones, speakers, keyboards, mouses, printers, tablets or smartphones. It is also possible to use dual mode, LAN function, printer control and the serial port function (SPP). The range of the Bluetooth dongle is between 10 and 20 meters depending on the onsite conditions. The BLE function ensures that the power consumption is always adapted to the capacity that is currently required.

# **Product Specification**

# 1. Basic specifications and parameters

	Product name:	Bluetooth 5.1 Nano USB Adapter
	Model:	DN-30211
	Dimension:	23 mm (L) x 14 mm (W) x 5 mm (H)
	Chip:	BR8651A01
	Weight (NW):	1.08g
	BT Version:	Bluetooth V5.1
	Transmission distance:	10m - 20m
	Rated Voltage:	DC 5V
	Interface type:	USB
SULUSION	Frequency range:	2.4GHz (2400-2484MHz)
	Transmission rate:	Bluetooth: EIRP: 2.84dBm Maximum Bluetooth: BLE: EIRP: 2.53dBm Maximum
	Software version:	V2.2
	Hardware version:	V3.1
	Operating system:	XP/ Win 7 / Win 8 / Win 10/ 11 / Linux
	Temperature:	0℃ ~70℃
	Humidity:	1. 40%~60%
		<ol> <li>Small size, powerful function: wireless listening to music, file sharing (not supporting IOS mobile phone)</li> <li>Powerful function (dual mode, low power</li> </ol>
	Features:	<ul> <li>consumption, high audio quality,</li> <li>supporting more than 3 Bluetooth devices,</li> <li>supporting Bluetooth service sharing)</li> <li>4. Comply with Bluetooth 5.1,</li> </ul>
		distance 10-20m

### 2. Support services

- Bluetooth LAN (PAN)
- Bluetooth high quality audio (A2DP, HFP)
- Bluetooth image transfer function (BIP)
- Serial port function (SPP)
- Bluetooth printing service (HCRP)
- Bluetooth file transfer service (FTP)
- Bluetooth information exchange service (OPP)
- Bluetooth dial up service (DUN) .....
- (chip supported protocols: GAP, HFP, HSP, PBAP, A2DP, AVRCP, FTP, OPP, MAP, HID, DUN, PAN, GATT, IAP2, ANCS, SPP, BT5.1 And downward compatible)

### 3. Application scope

- Wireless communication between mobile phones and hands-free devices was also the first popular application
- Wireless network between computers within a specific distance
- Wireless connection between computer and peripheral devices, such as Bluetooth keyboard, mouse, headset, printer, etc
- File transfer between Bluetooth devices
- Wireless traditional wired equipment, such as: medical equipment, GPS, barcode scanner, traffic control equipment
- Wireless bridge between several Ethernet Networks
- 7 generations of home game console handle, PS3, PSP go, Nintendo Wii ipega9017 ipega9017s ipega9025 Bluetooth game handle
- With Bluetooth support, PC or PDA can realize dial-up Internet access through the modem of mobile phone
- The real-time positioning system (RTLS) uses the "node" or "tag" embedded in the tracked object, and the "reader" receives and processes the wireless signal from the tag to determine the location of the object

### 4. Operation Instruction

1. Plug and play version, no needs to install the driver

#### Note:

- (1) Most laptops have their own Bluetooth function, as shown in the figure. Before plug the BT adaptor into any devices with own Bluetooth function, user needs to disable your own Bluetooth in the device manager, and then re-insert a new Bluetooth adapter.
- (2) IOS system mobile phone does not support file transfer
- 2. Once the USB adaptor is plugged you will see a Bluetooth icon on the task bar at the bottom right of the screen. If you click on it (both right and left click work the same way), you will get a list of options.



If you do not have a Bluetooth icon, open up **Control Panel** -> **Hardware & Sound** -> **Setup a Bluetooth enabled device**. Go to the **Options** Tab and check the final box on the page – **Show the Bluetooth icon in the notification area** 

Devices	Options	COM Ports	Hardware	Share	PIM Interface
Disco V Al	very low Blueto To protect you want	oth devices to t your privacy a Bluetooth d	o find this co , select this c evice to find	mputer check bo this com	x only when puter.
Conne Al Al	ec <mark>tions</mark> low Blueto ert me whe	oth devices to en a new Blue	o connect to tooth device	this com e wants to	puter o connect
V Show	w the Blue off the Blu	tooth icon in t uetooth adapt	he notificatio er	on area	
Change	settings fo	or a Bluetooth	enabled dev	vice.	ore Defaults

# **Pairing your Bluetooth devices**

Pairing is a feature of Bluetooth that allows devices to make secure connections. Although you do not always need to pair devices to exchange data, if you are likely to send information between them on a regular basis it is a good idea to do so.

To pair a device using the Bluetooth stack you need to click on the Bluetooth Icon in the task bar and then select **Add a Bluetooth Device**.

Bluetos	oth Devic	es			<b></b> X
Devices	Options	COM Ports	Hardware	Share	PIM Interface
					1
	1.0.13				
Ad	d	Remove			Properties
		ОК	C	ancel	Apply

Click Add. Read the instructions, and once you've done these, check the box My device is set up and ready to be found and press Next.

8 Add Bluetooth Device Wize	ard
	Welcome to the Add Bluetooth Device Wizard         Before proceeding, refer to the "Bluetooth" section of the device documentation. Then set up your device so that your computer can find it:         • Turn it on         • Make it discoverable (visible)         • Give it a name (optional)         • Press the button on the bottom of the device (keyboards and mice only)         Image: Weak of the set up and ready to be found.
	Add only Bluetooth devices that you trust.
	< Back Next > Cancel

Your PC will then start looking for Bluetooth devices that are discoverable and within range. This may take up to a minute. You will then be given a list of the devices that have been found. If your phone or PDA does not appear on the list then it is probably because it has been set up as hidden or non-discoverable. Dig out the manual (that thing you didn't get around to reading) and find out how to make it visible. Then try again by pressing **Search Again**. Once your device has appeared on the list, highlight it and press **Next**.

8	Add Bluetooth Device	Wizard	
	Select the Bluetooth	device that you want to add.	
	BT GPS New device	DQASERVER New device	
	WILLIAM New device	PC293262736510 New device	
	If you don't see the turned on. Follow t and then click Sea	device that you want to add, make sure that it is e setup instructions that came with the device, ch Again.	
		< Back Next > Cancel	

To ensure a secure connection between the devices, you will need to enter a passkey on both the other Bluetooth device and your PC. This is used to generate a secure code that will be used to authenticate the device and your PC every time they connect to each other. For phones and PDAs you can make this passkey up yourself. You don't need to remember it - it is only ever needed the first time you pair the devices.

To make things easier (and more secure) Windows can generate a random number for you to use as the passcode. Choose that option (**Choose a passkey for me**) and press **Next**.

8 Add Bluetooth Device Wizard	
Do you need a passkey to add your device?	)
To answer this question, refer to the "Bluetooth" section of the documentation that came with your device. If the documentation specifies a passkey, use that one.	
Ochoose a passkey for me	
Use the passkey found in the documentation:	
C Let me choose my own passkey:	
Ont use a passkey	
You should always use a <u>passkey</u> , unless your device does not support one. We recommend using a passkey that is 8 to 16 digits long. The longer the passkey, the more secure it will be.	
< Back Next > Cancel	

Windows will display the number for you to enter in your Bluetooth device:

8	Add Bluetooth Device Wizard
	Windows is exchanging passkeys.
	When instructed below, enter the passkey using your Bluetooth device.
	For more information about entering a passkey, see the documentation that came with your device.
	✓ Connecting
	Please enter the passkey on your Bluetooth device now.
	Passkey: 53141440
	Installing Bluetooth device
	< Back Next > Cancel

Enter this into your phone or PDA and then press **OK**. If the pairing is successful you will see the final screen on your PC, confirming that the devices have been paired.

8 Add Bluetooth Device Wize	ard
	Completing the Add Bluetooth Device Wizard
	The Bluetooth device was successfully connected to your computer. Your computer and the device can communicate whenever they are near each other.
	These are the COM (serial) ports assigned to your device.
	Incoming COM port: COM3
	Learn more about Bluetooth COM ports
	To close this wizard, click Finish.
	< Back Finish Cancel

At this stage Windows assigns two COM ports to your Bluetooth device – one for incoming and one for outgoing connections. You will need to use these if you run communications programs that connect your PC to your Bluetooth devices. Typical applications include PC Suite for Nokia and Sony Ericsson handsets and Easy Studio for Samsung handsets.

# [Windows 7]

To pair a device using the Bluetooth stack you need to click on the Bluetooth Icon in the task bar and then select **Add a Device**.

	Devices and Drinters A. Plustee	th Davisor		Search Davisor and Driv	tarr		2
Add a device	Add a printer		• • • • • • •	Search Devices and Film	IE/S	•	(
		No items match your search.					
		no items mater your search					
	items						

Select the device you want to connect and click Next button



Connecting the device you selected.

![](_page_8_Picture_1.jpeg)

Windows generates the paring code for security verification. Click **Yes** and **Next** to do paring Click **No** and **Next** to reject paring

Click The device is not displaying a code and Next to paring without showing code.

![](_page_8_Picture_4.jpeg)

The window shows after paring is done.

![](_page_9_Picture_1.jpeg)

Click Close to show current connection status.

😂 ССС-РС		
Bluetooth Computer Operations and Settings enables you to connect to and disconnect from services on the computer and to configure settings.	Bluetooth Computer Operations and Settings	3
	Computer Operations Listen to audio from this computer to another computer's speakers (CCC-PC)	Connect
	Listen to audio from your computer (CCC-PC) through this computer's speakers	Connect
	Use this computer as a headset or speakerphone for calls on your computer (CCC-PC)	Connect
	Browse files on your computer (CCC-PC)	
	Send files to your computer (CCC-PC)	
	E Configuration and Settings	
1	File Exchange settings	
	Authorization Options	
See also		
Add a Bluetooth device		
Show Bluetooth devices		
Open Bluetooth settings		
Tum Adapter On		

# Sending Data from your phone

The Bluetooth stack protects your PC by making it invisible to other devices. However it still allows you to send information and files from a Phone or PDA, but you need to initiate the transfer from your PC.

To do this, click on the Bluetooth	icon in the system tray an	d select Receive a File.
------------------------------------	----------------------------	--------------------------

A	dd a Bluetooth Device
S	how Bluetooth Devices
S	end a File
R	leceive a File
J	oin a Personal Area Network
C	Open Bluetooth Settings
Т	urn Bluetooth Adapter Off
R	emove Bluetooth Icon

Bluetooth stack now makes your PC discoverable for a limited time, and also enables the file receive software. Once this is complete it shows the ready to receive screen.

8	Bluetooth File Transfer Wizard
	Windows is waiting to receive the file.
	Waiting for a connection from another computer or device
	< Back Next > Cancel

Now select the picture or file you want to send from your phone, and select the option to send it via Bluetooth. You should see a list of devices on your phone.

Note: It only allows access for a limited time. If your phone cannot find your PC it may be because you've taken too long. Check that the PC is still displaying the Waiting for a connection screen. It will prompt out "Bluetooth File Transfer Access Authentication" window once your phone connects to Bluetooth device and ready to send.

#### Click to grant or deny

![](_page_11_Picture_3.jpeg)

Note: Your virus checker may not scan files received via Bluetooth. It is a good idea to reserve a directory for incoming files and perform a virus check on this directory before opening them.

Bluetooth	File Transfer Acce	ss Authoriz	ation		? ×
1	Bluetooth device 'I 'C:\Users\dqa\Do your computer. Cli	DQASERVE cuments\Blu ck OK to aut	R' has requi etooth Exch thorize or Ca	ested permission hange Folder\RE ancel to deny ac	to copy file EADME.TXT' to cess.
Allow a	ccess				
V Fo	r the current request	only.			
E Fo	r the next 5 M	inutes	-		
A	ways allow this devic	e access to	my compute	er's File Transfer	service.
				ОК	Cancel

Note: This is the only way of receiving files using the Windows XP Bluetooth stack.

If you make the PC permanently discoverable you will still need to initiate File Receive from the Bluetooth icon.

# Sending files from your PC

It's very easy to send files to another Bluetooth device with the Bluetooth stack. Just right click on the file you want to send, and then select **Send a File** to Bluetooth Device. You can select a file from your desktop or a file list in Windows Explorer.

Note: You cannot currently send from the File, Send menus in Word, Exchange or other Office programs.

and the second
Add a Bluetooth Device
Show Bluetooth Devices
Send a File
Receive a File
Join a Personal Area Network
Open Bluetooth Settings
Remove Bluetooth Icon
*

Windows will display a list of the devices that have been set up already (paired). Select the device you want to send the file to, or **Browse to find other devices**. (Other devices must be discoverable or set to Show to all). Then press **Next**.

8 Bluetooth File Transfer	Wizard	×
Select where you war	t to send the file.	×
Send the file to the com computer or device.	puter or device below, or click Browse to choose a	different
Send to:	DQASERVER	Browse
Use a passkey to ensur also protects the file from	e that you are sending the file to the correct device n being viewed by others while it is sent to the othe	. The passkey r device.
Use a passk	ey	
Passkey:		
	< Back Next >	Cancel

Click  $\ensuremath{\textbf{Browse}}$  to choose the file and click  $\ensuremath{\textbf{Next}}$  while you're ready to send out.

8 Bluetooth File Transfer	Wizard	×
Select the file you wa	ant to send.	<b>*</b>
To choose a file, click	Browse.	
File name:		Browse
	< Back Nex	t > Cancel

Show up file sending status window.

8 Bluetooth File Tr	ansfer Wizard	1 2 1		x
The file is being	)sent.			<b>*</b>
Sending to:	DQASERVER			
File name:	6.GIF			
Sending				
		< Back	Next >	Cancel

Once the transfer is complete, Windows will finish the Transfer Wizard and display details of the transfer.

😢 Bluetooth File Transfer Wiz	ard		×
	Completing t Transfer Wiz	he Bluetooth File zard	
	The file was successful	ly sent.	
	Sent to:	DQASERVER	
	File name:	6.GIF	
	File size:	28.2 KB	
	To close the wizard, cli	ck Finish.	
	<	Back Finish	

### Making your PC discoverable

The Bluetooth stack defaults to keeping your PC invisible. This is the safest way of operating Bluetooth on a PC. However, some applications may require the PC to be in discoverable mode. To change this, click on the Bluetooth Icon in the task bar and then select **Open Bluetooth settings**, then choose the **Options** tab. Select the **Turn discovery** on box and click **OK**.

Devices	Options	COM Ports	Hardware	Share	PIM Interface
Disco	verv				
A	low Blueto	oth devices to	o find this co	mputer	
A	To protect	vour privacy	select this o	heck bo	x only when
	you want	a Bluetooth d	evice to find	this com	puter.
Conne	ections				
V A	low Blueto	oth devices to	o connect to	this com	puter
V A	ert me whe	en a new Blue	tooth device	e wants t	o connect
Char	u the Plust	taath isan in t	ha patificatia		
Tum	off the Blue	istooth adapt	or	n area	
		Jeroorn adabr			
Change	settings fo	or a Bluetooth	enabled dev	vice.	
				Resto	ore Defaults

# **Printing to a Bluetooth Printer**

Refer to **Add a Bluetooth Device** to add Bluetooth printer. Bluetooth stack will install necessary drivers to activate Bluetooth printing service.

# **Connecting to a Bluetooth Audio**

Connect audio device and click shortcut on desktop

![](_page_15_Picture_4.jpeg)

Click button to Connect / Disconnect.

S, Mini Stereo Headset (v1.2.2)		
Bluetooth Headset Operations and Settings enables you to connect to and disconnect from services on the headset and to	Bluetooth Headset Operations and Settings	
configure settings.	🜉 —— 😻 ——	
	CCC-PC Mini :	Stereo Headset (v1.2.2)
	(ms computer)	(Disconnected)
	🔍 Headset Operations	
	This computer is not connected to a Bluetooth headset (Mini Stereo Headset (v1.2.2))	Connect
	See Configuration and Settings	
See also	✓ Headset Type	
Add a Bluetooth device		
Snow Bluetooth devices		
Turn Rivetooth Adapter Off		
Heln		

### **Bluetooth Share**

![](_page_16_Picture_1.jpeg)

- Allow remote devices to browse, send and receive pictures, music and other files Click checkbox to enable/disable share file types.
- Bluetooth Exchange Folder location Click "Browse" to assign Bluetooth exchange folder
- Allow remote devices to use the printer connected to your computer. Click checkbox to enable / disable Bluetooth printer connected to your computer
- Allow Bluetooth devices to use your modem to connect to internet or to send a fax Click checkbox to enable/disable remote Bluetooth device to use local modem to surf internet

or send a fax.

### **Bluetooth PIM Interface**

8 Bluetooth Device	s			×
Devices Options	COM Ports	Hardware	Share	PIM Interface
Allow I Allow I as bus and no	Bluetooth de iness cards, otes	vices to sen calendar ite	d you Pl ms, e-ma	M items such il messages,
Store received ite	ms in followi	ng applicatio	ins	
Business Cards	Do Not Ac	cept		•
Calendar Items	Do Not Ac	cept		-
E-mail Messages	Do Not Ac	cept		-
Notes	No PIM ins	stalled		-
Include attach this computer	ments with o	e-mail that is	sent or n	eceived by
Learn more about	: <u>PIM Interf</u>	ace		
	ОК		ancel	Apply

• Allow Bluetooth devices to send you PIM items such as business cards, calendar items, e-mail messages and notes

Click checkbox to enable/disable accept PIM items.

- Store received items in following applications Business Cards Do Not Accept or Windows Mail Calendar Items - Do Not Accept or Windows Calendar E-mail - Do Not Accept or Windows Mail Notes - Do Not Accept
- Include attachments with e-mail that is sent or received by this computer Click checkbox to enable/disable getting attachments.

# **Bluetooth Dial Up**

![](_page_18_Picture_1.jpeg)

Connect phone and Click shortcut on desktop

🖡 Nokia		
Bluetooth Phone Operations and Settings enables you to connect to and disconnect from	Bluetooth Phone Operations and Settings	0 -
services on the phone and configure settings.	i i i i i i i i i i i i i i i i i i i	
Tasks	CCC-PC Nokia (This computer) (Disconnected	d)
Configure device	Phone Operations	E
Synchronization settings	Use your phone (Nokia) to connect to the Internet	Connect
	Make a call to this number:   Call	Hangup
Canadan (	Listen to audio from your phone (Nokia) through this computer's speakers	Connect
Add a Bluetooth device	Use this computer as a headset or speakerphone for calls on your phone (Nokia)	Connect
Show Bluetooth devices	Back up contacts and calendar information from your phone (Nokia)	
Open Bluetooth settings	Restore backed-up contacts and calendar information to your phone (Nokia)	
Turn Bluetooth Adapter Off	Synchronize contacts and calendar information between this computer and phone (Nokia)	
Help	Browse files on your phone (Nokia)	-

- Use your phone to connect to the Internet. Click button to Connect / Disconnect to Internet by phone.
- Make a call to this number Input phone number and click button to Call / Hang up by phone
- Listen to audio from your phone through this computer's speakers Click button to Connect / Disconnect your phone then listen audio.
- Use this computer as a headset or speakerphone for calls on your phone. Click button to Connect / Disconnect headset communicating by your computer.

# **Bluetooth Options**

![](_page_19_Picture_1.jpeg)

### Discovery

• Allow Bluetooth devices to find this computer Click checkbox to enable/disable if Bluetooth device is discovered.

# Connection

- Allow Bluetooth devices to connect to this computer Click checkbox to enable/disable if Bluetooth device is connected.
- Alert me when a new Bluetooth devices wants to connect Click checkbox to enable/disable alert message if Bluetooth device is connected.
- Show the Bluetooth icon in the notification area Click checkbox to enable/disable icon shown in task bar.
- Turn off the Bluetooth adapter. Click checkbox to turn off / on the device Bluetooth Hardware

evices Options	COM Ports	Hardware	Share	PIM Interface
onoce populorio	001110110		Gridio	- Internet
Devices:				ast 12
Name			Тур	e
Microsoft Blue	etooth Enume	erator	Blue	etooth
M Generic Bluet	ooth Adapter		Blue	etooth
Device Propertie	s			
Manufacturer: M	licrosoft			
Location: on Ger	neric Bluetoot	th Adapter		
The second second second				
Device Status: T	his device is	working pro	perly.	
Device Status: 1	his device is	working pro	perly.	
Device Status: T	'his device is	working pro	perly.	
Device Status: 1	'his device is	working pro	perly.	
Device Status: T	'his device is	working pro	perly.	
Device Status: T	'his device is	working pro	perly.	
Device Status: T	his device is	working pro	perly.	
Device Status: T	his device is	working pro	perly.	operties
Device Status: T	his device is	working pro	perly.	operties

• Choose Broadcom Bluetooth 5.1 EDR USB Dongle and Click Properties to get hardware information in details.

#### General

ieneral	Advanced	Driver	Details		
*	Generic Blu	uetooth /	Adapter		
	Device type	e:	Bluetooth Radios		
	Manufactu	rer:	GenericAdapter		
	Location:		Port_#0003.Hub_#	0006	
Devic	e status				
1110					

### Advanced

General	Advanced	Driver	Details			
Radio	Information					
Nam	e: CCC-PC				]	
Add	ress: (00:02	2:72:16:4	b:60)			
Man	ufacturer Id:	15				
HCI	version 4.20	753. LMI	version 4.	16910.		
					Default	

### Driver

ieneral Advanced	Driver	Details
Generic Blue	etooth /	Adapter
Driver Provid	der:	Microsoft
Driver Date:		2006/6/21
Driver Versio	n:	6.0.6000.16682
Digital Signe	er:	microsoft windows
Driver Details	To	view details about the driver files.
Update Driver	) To	update the driver software for this device.
Roll Back Driver	lf t ba	the device fails after updating the driver, roll ick to the previously installed driver.
Disable	Di	sables the selected device.
Uninstall	) To	uninstall the driver (Advanced).

#### Details

General	Advanced Driver Details
8	Generic Bluetooth Adapter
Propert	/
Device	e description
Value	

Frequency range:	2.4GHz (2400-2484MHz)
Transmission power:	Bluetooth: EIRP: 3,15 dBm Maximum
	Bluetooth BLE: EIRP: 1,86 dBm Maximum
Software version:	202107241135-В
Hardware version:	V 1.0

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![](_page_22_Picture_6.jpeg)