

# ANT-7000E and ANT-7000D port usage

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## Document info

Version	date	author	Comments
1.0	4-Dec-19	David M	Initial for fixed (310.05) and configurable (v332.00) ports

If one or both of the ANT-7000E and ANT-7000D are located under the NAT, you should set port forwarding in the NAT equipment accordingly.

If the ANT-7000E is located under the NAT, refer to the "TX ← RX" column in the tables below. And, if the ANT-7000D is located under the NAT, refer to the "TX → RX" column in the tables below.

## 1. Fix port usage with F/W 310.05

ANT-7000E vs ANT-7000D

Port number	Data Type	TX ← RX	TX → RX
TCP Port 19876	Info channel / video channel	mandatory	
UDP port 19000	video stream		mandatory
UDP port 18504	Audio stream		mandatory
UDP port 8001	virtual serial data	optional	optional
TCP port 4001	Keyboard / mouse data	optional	

## 2. Configurable port usage

### 2.1. using F/W 332.00

To upgrade to this version, the code is available from [Antrica.com](http://Antrica.com) -> [ANT-7000 product page](#) -> Product Info & Downloads -> Firmware -> then download the file "ANT-7000.v332.00.rar"

The instructions for the upgrade are including in a text file within the .rar file.

A USB adaptor is required for encoder (USB Type-A Female to USB Mini-B 5 Male Adapter) similar to that shown on the right.



The MGMT port on both the ANT-7000E and ANT-7000D must be the same value. The values shown in the tables below (in section 2.1.1 and 2.1.2) are the default values for the default MGMT port. If the default MGMT is altered to say 18979 (is this the default reduced by 20) all the other ports will be reduced by 20. See the examples to right of the default values.

### 2.1.1. ANT-7000E

Function	default	range
MGMT Port	18999	4100~65520
RTSP Server Port	8554	4096~65530

Port Usage between TX/RX

Function	TX ← RX	TX → RX
MGMT Port	TCP 18999	
Video Data Port		UDP 19000
Audio Data Port		UDP 18995
KVM Data Port	TCP 19008	
virtual serial Data Port	UDP 19009	UDP 19009

Port Usage between RTSP Server/Client

Function	TX ← RX	TX → RTSP Client
RTSP Server Port	TCP 8554	
Video RTP Port(Multicast)		UDP 19000
Video RTCP Port(Multicast)		UDP 19001
Audio RTP Port(Multicast)		UDP 19004
Audio RTCP Port(Multicast)		UDP 19005
I-Request Port	UDP 19000	
KVM Data Port	TCP 19008	

### 2.1.2. ANT-7000D

Function	default	range
Peer MGMT Port	18999	4100~65520

Port Usage between RX/TX

Function	TX ← RX	TX → RX
MGMT Port	TCP 18999	
Video Data Port		UDP 19000
Audio Data Port		UDP 18995
KVM Data Port	TCP 19008	
virtual serial Data Port	UDP 19009	UDP 19009

Example using MGMT port as:

MGMT Port	<b>18979</b>
RTSP Server Port	45554

TCP 18979	
	UDP 18980
	UDP 18975
TCP 18988	
UDP 18989	UDP 18989

TCP 4554	
	UDP 18980
	UDP 18981
	UDP 18984
	UDP 18985
UDP 18980	
TCP 18988	

Peer MGMT Port	<b>18979</b>
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TCP 18979	
	UDP 18980
	UDP 18975
TCP 18988	
UDP 18989	UDP 18989