

The NDI | HX2 Sending Modes of TBS2603SE NDI & TBS2603AU

NDI (or NDI | HX) has 4 transport modes:

multi-TCP sending, base TCP connection (TCP uni-connection), UDP multicast, UDP unicast.

Currently, the default NDI sending mode of TBS2603SE & TBS2603AU is “multi TCP” mode.

It is strongly recommended that you default UDP multicast to disabled. Experience has shown that many networks are not correctly configured to support high bandwidth multicast; in such cases, network performance can be seriously compromised if multicast is used.

But in some case, we have to choose UDP multicast as the sender. For instance, if we have a limited bandwidth and if we have multiple receivers. In this case, multi TCP is not a good choice, because it will take times of bandwidth if multiple connections to a same Encoder simultaneously in this mode.

Here’s an example, if your Encoder bitrate sets to 8Mbps, and if you have 4 receivers connect to Encoder. Bandwidth will take around 32Mbps (8Mbps x 4 connections).

For UDP multicast sending:

Any multicast address in the range “239.255.0.0” to “239.255.255.255” can be randomly chosen.

For UDP unicast sending:

Once the “UDP unicast sending” is specified, receiver side needs to allow this for UDP mode to be applied. Otherwise, your receiver might not receive your NDI stream.

If you need “UDP multicast sending” mode, please contact with us and ask for the fw to upgrade:

support@tbsdtv.com

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Thanks