



Terracom Products Network Information V2

1.Scope of this document

This document summarize all network information and requirements about Terracom products.

Products concerned are:

- Terra-FDX
- Terra-AMP
- Terra-EXA
- Terra-IEX
- Terra-EX
- Terra-FXO
- Terra-DS
- PPM-IT5
- Terra-K
- Terra-IO
- TerraManager
- TerraServer

2.Network bandwidth and bitrate

Data circulating over the network can be classified as:

- Audio Streams, will according audio stream number of channels and format.
- Control Streams, each products be estimated at 28kbps.

So the total bitrate is computed using the formula(in kbps):

((number of products)* 28kbps) + ((number of streams) * stream bitrate)

Example for 8 Terra-FDX + 2 TerraManager and use 10 channels audio stream(mp3 format) at same time.

$((8+2) * 28) + (10 * 150) = 1780\text{Kbps}$.

Audio stream format:

mono:

mp3 : 150kbps
G.722 : 90kbps
G.711ulaw : 90kbps
G.722alaw : 90kbps
PCM16k : 280kbps
WAVE : 780kbps

Stereo:

mp3 : 150kbps
wave : 170kbps

3.IP information

3-1.Terracom products have used below Multicast address(IGMP):

239.211.34.48 for ATEIS-NET status display
239.211.34.45~49 for IDA8 or BTQ IGMP address
239.240.38.25; Port 9000/9002 for Machines status
239.240.38.25; Port 8998 for Paging control
239.240.38.25 ; Port 8995 for Machines Display status
239.241.100.0 ~ 239.241.100.255 ; Ports : 2000 ~ 3000 for Audio Steam.
239.240.38.25:9002, Boutique protocol

3-2.Terracom products LocalHost Ports

- 20 File Sync
- 21 File Sync
- 20 Web Server
- 123 NTP Server
- 161 SNMP protocol
- 5060: SIP Call
- 6912: RTP Address
- 8010: ThirdParty commands
- 19760: for IDA8
- 19761, 3rd party control
- 19762: for IDA8
- 19770: for IDA8
- 19780: for IDA8
- 19781: for IDA8
- 19782: for IDA8
- Boutique usage port:9002