



Recorder Capacities

A white paper for resellers and installers

Overview

There are three types of storage which can be used by the RBR2600 Series recorder; on-line recorder storage, removable storage and Networked Storage.

The basic calculation for the volume of calls recorded to each is as follows:

Size of Storage / Bytes per hour per channel = Channel Hour Capacity

A channel is a recorded device – typically a phone or ISDN slot.

The Size of the Storage is expressed in Bytes e.g. 100 Gigabytes.

The Bytes per hour per channel is also in bytes and is dependent upon what is being recorded, particularly the codec in use, as is detailed below.

Codec	Bytes per hour
Line card G.711	28,800,000
Line card ADPCM16K	7,200,000
Line card GSM	5,940,000
Line card G.729A	3,600,000
VoIP G.711	57,600,000
VoIP G.729A	7,200,000

So, as an example, if we had a 100GB on-line call store and were recording from line cards at GSM compression, then the channel hour capacity of the recorder would be $100,000,000,000 / 5,940,000 = 16,835$ Channel Hours. These capacities are always approximate because of other items of data associated with a call which may be variable but give a good indication of the recorder capacity.

To then work out how long the storage is to last simply divide the channel hour capacity by the number of recorded phones multiplied by the time spent on the phone. So in the example above, a 30 phone site where the average use is 2 hours per day would yield $16,835 / 30 \times 2 = 273$ working days of on-line storage.

On-line storage

The recorder is fitted as standard with a 120GB HDD which gives around 105GB of on-line storage.

Codec	Channel Hours (approx)
Line card G.711	3,300
Line card ADPCM16K	14,000
Line card GSM	17,000
Line card G.729A	28,000
VoIP G.711	1,700
VoIP G.729A	14,000



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Optionally the recorder can have 450GB of local call storage giving:

Codec	Channel Hours (approx)
Line card G.711	14,000
Line card ADPCM16K	60,000
Line card GSM	72,000
Line card G.729A	120,000
VoIP G.711	7,000
VoIP G.729A	60,000

Removable Storage

The recorder supports two kinds of removable storage and each supports different capacities of media.

Two capacities of VXA-2 tape are illustrated below:

V10 Media

Codec	Channel Hours (approx)
Line card G.711	1,200
Line card ADPCM16K	4,800
Line card GSM	5,800
Line card G.729A	9,700
VoIP G.711	600
VoIP G.729A	4,800

X23 Media

Codec	Channel Hours (approx)
Line card G.711	2550
Line card ADPCM16K	10200
Line card GSM	12,400
Line card G.729A	20,750
VoIP G.711	1,300
VoIP G.729A	10300

DVD-RAM 4.7GB

Codec	Channel Hours (approx)
Line card G.711	160
Line card ADPCM16K	650
Line card GSM	780
Line card G.729A	1,300
VoIP G.711	80
VoIP G.729A	650



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

Networked Storage

The networked storage allocated to the recorder effectively increases the on-line storage of the recorder.

An example of this is 1TB of Network Attached Storage:

Codec	Channel Hours (approx)
Line card G.711	31,000
Line card ADPCM16K	133,000
Line card GSM	160,000
Line card G.729A	266,000
VoIP G.711	16,000
VoIP G.729A	133,000

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