# *Ether*MPX Configuration Examples

Must select once for
Analog or Digital MPX input.

Both Analog & Digital
MPX outputs are
operational.

```
┌─────────────────┐                                    ┌─────────────────┐
│   EtherMPX       │            IP Link                 │   EtherMPX       │
│   ENCODER        │───────────────────────────────────▶│   DECODER        │
└─────────────────┘                                    └─────────────────┘
         ▲                                                       │
         │                                                       │
    MPX + RDS                                                   MPX
         │                                                       │
         │                                                       ▼
┌──────────────┐    ┌──────────────┐                        EXCITER
│   AUDIO      │    │    RDS       │
│ PROCESSOR    │    │  ENCODER     │
│ WITH STEREO  │    │              │
│  ENCODER*    │    └──────────────┘
└──────────────┘         ▲
    ▲    ▲ SCA           │
    │    └───────────────┘  RS232
    │                       │
    │              ┌──────────────┐
    │              │    RDS       │
L/R AUDIO FROM     │  SOFTWARE    │
STUDIO CONSOLE     └──────────────┘
(Analog or Digital)
```
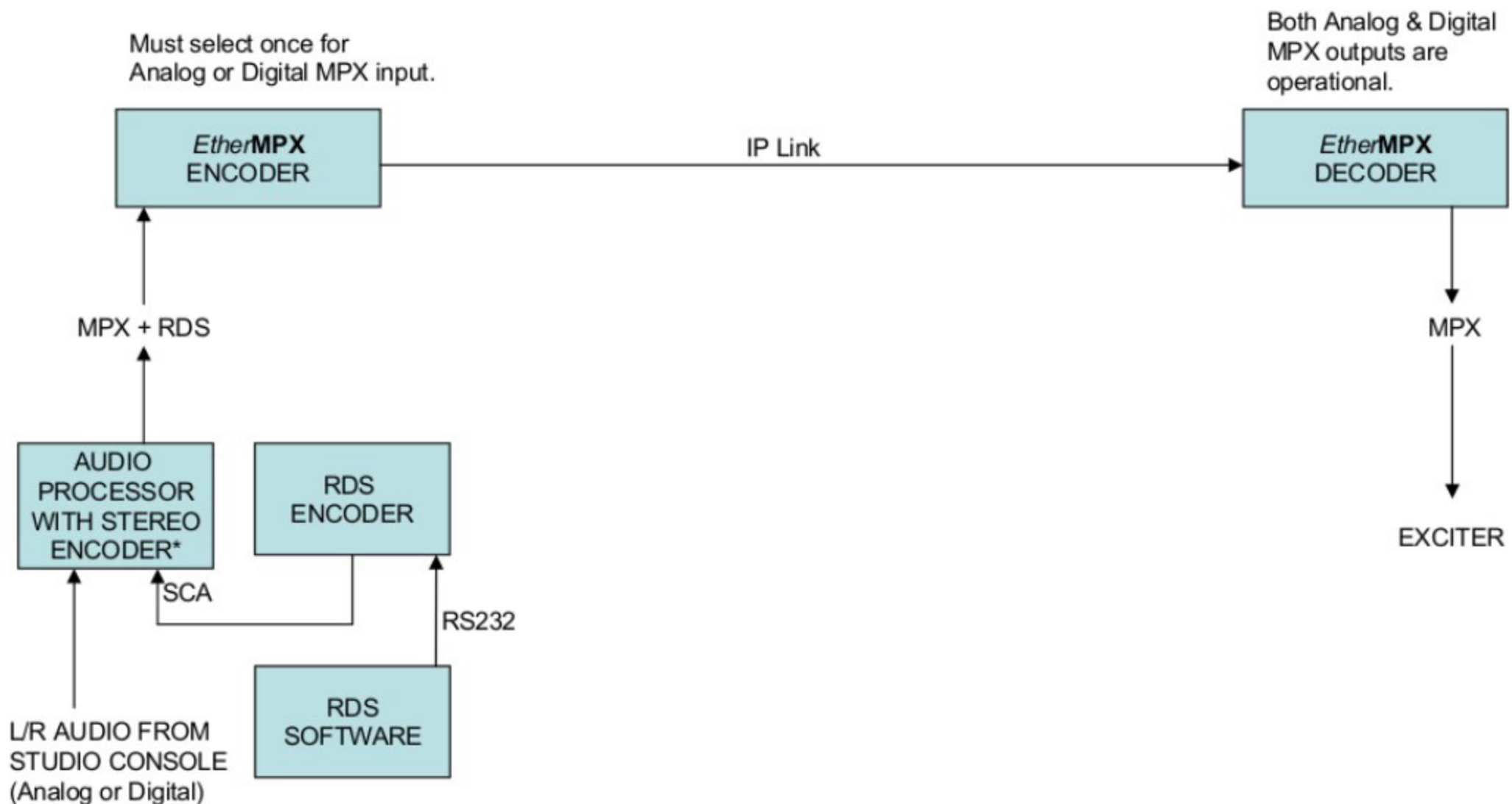
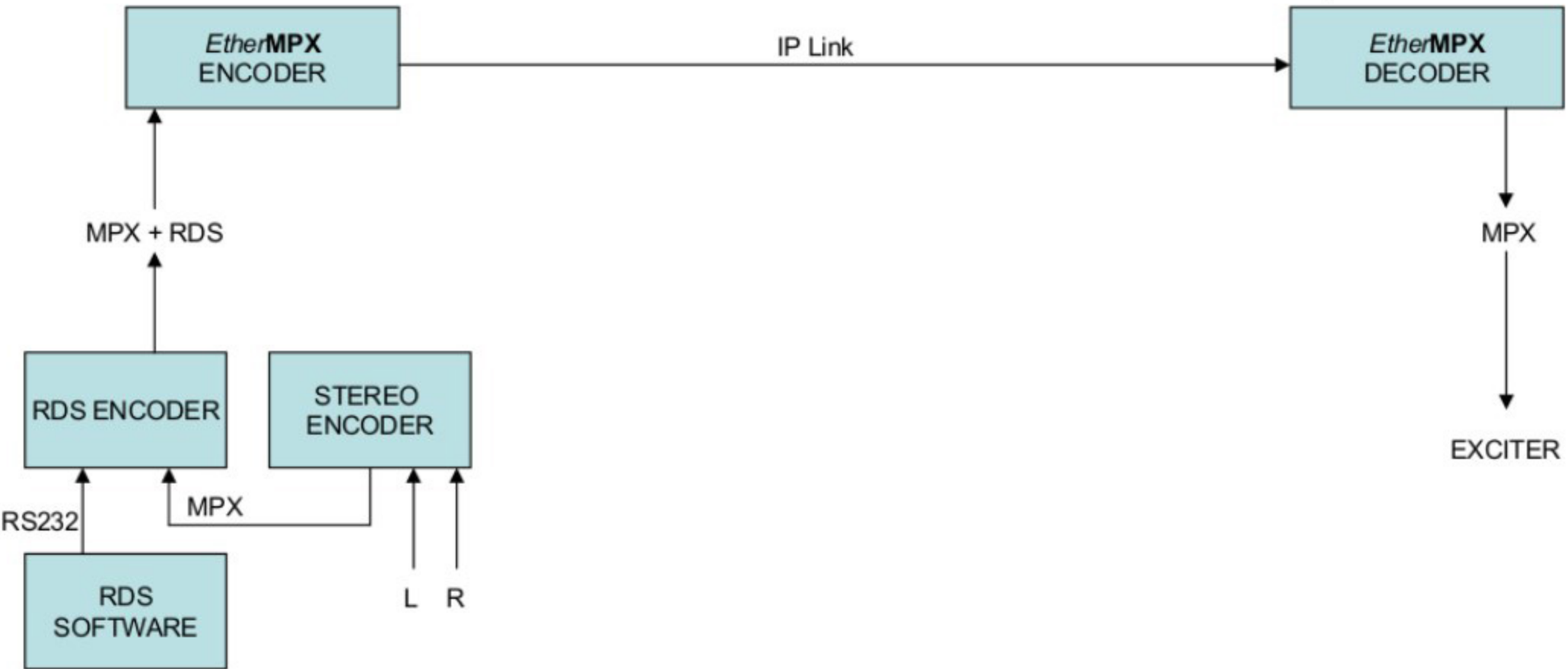*NOTE: Only Omnia.9 can provide Digital MPX

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**Example 1:**

Sending MPX+RDS (analog or digital), by using
the internal stereo encoder of audio processor.
RDS is fed to SCA input of audio processor.

# *Ether*MPX Configuration Examples

Must select once for
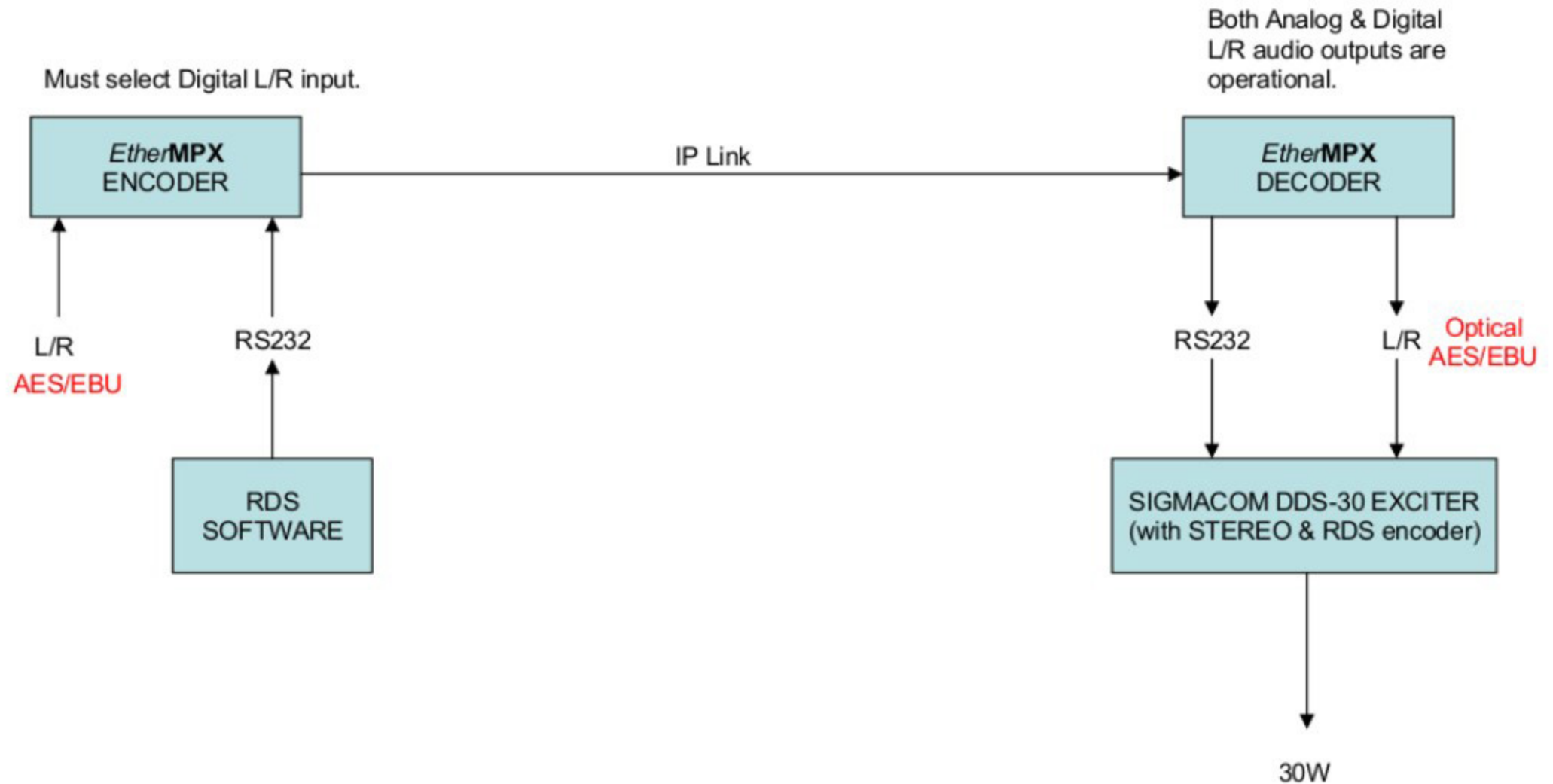Analog or Digital MPX input.

Both Analog & Digital
MPX outputs are
operational.

| *Ether*MPX ENCODER |
|---|

IP Link →

| *Ether*MPX DECODER |
|---|

↑ MPX + RDS

↓ MPX

| RDS ENCODER |
|---|

| STEREO ENCODER |
|---|

EXCITER

RS232    MPX

| RDS SOFTWARE |
|---|

L   R

**Example 2:**

Sending MPX+RDS (analog or digital), by using
the internal stereo encoder of audio processor.
MPX output of audio processor is then inserted
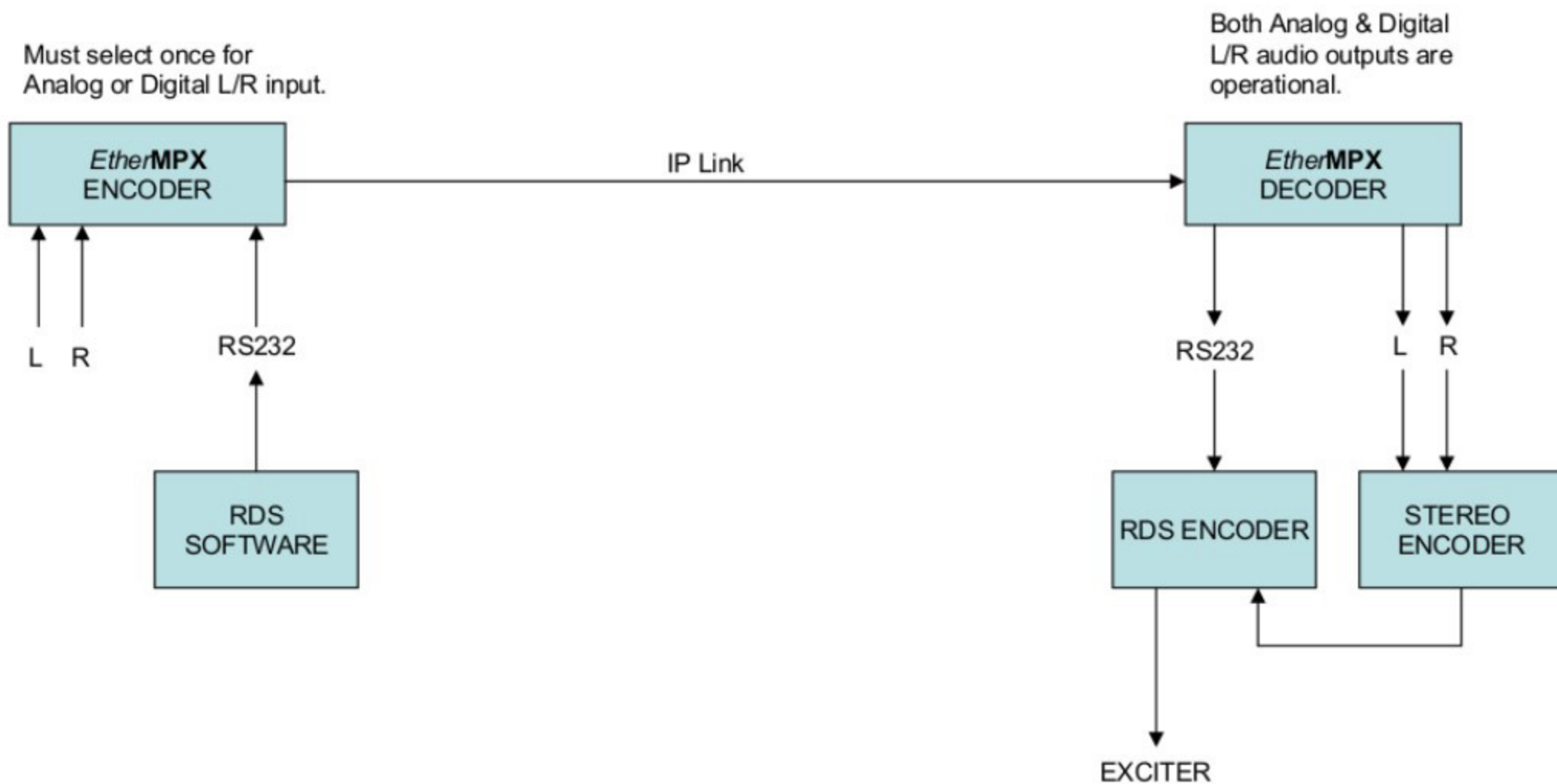into RDS encoder to add RDS on MPX.

# *Ether*MPX Configuration Examples

Must select Digital L/R input.

Both Analog & Digital
L/R audio outputs are
operational.

```
┌──────────────────┐                    IP Link                    ┌──────────────────┐
│   EtherMPX        │ ─────────────────────────────────────────▶   │   EtherMPX        │
│   ENCODER         │                                               │   DECODER         │
└──────────────────┘                                               └──────────────────┘
      ▲        ▲                                                          │            │
      │        │                                                          ▼            ▼
      │        │ RS232                                                  RS232         L/R   Optical
   L/R                                                                                      AES/EBU
   AES/EBU                                                                                
            ┌──────────────────┐                              ┌────────────────────────────────┐
            │   RDS            │                              │ SIGMACOM DDS-30 EXCITER          │
            │   SOFTWARE       │                              │ (with STEREO & RDS encoder)      │
            └──────────────────┘                              └────────────────────────────────┘
                                                                             │
                                                                             ▼
                                                                           30W
```
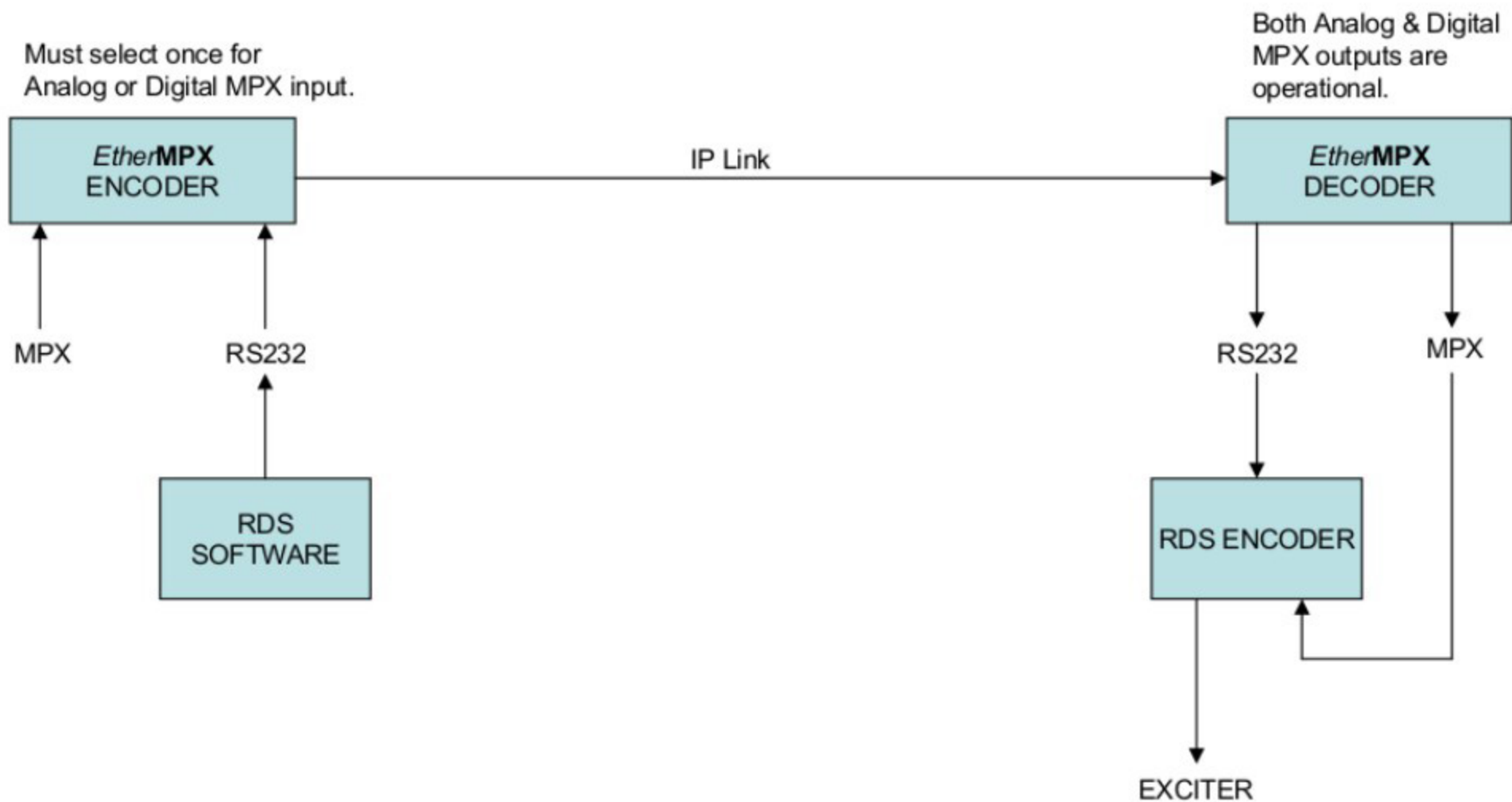
**Example 3:**

Sending digital L/R and RDS information via RS232 to Sigmacom DDS-30 exciter (the exciter does the stereo and RDS encoding).

# *Ether*MPX Configuration Examples

Must select once for
Analog or Digital L/R input.

Both Analog & Digital
L/R audio outputs are
operational.

*Ether*MPX
ENCODER

IP Link

*Ether*MPX
DECODER

L   R

RS232

RDS
SOFTWARE

RS232

L   R

RDS ENCODER

STEREO
ENCODER

EXCITER

**Example 4:**

Sending L/R (analog or digital), and RDS data.
Stereo and RDS encoders must be installed at
transmitter site.

# *Ether*MPX Configuration Examples

Must select once for
Analog or Digital MPX input.

Both Analog & Digital
MPX outputs are
operational.

*Ether*MPX
ENCODER

*Ether*MPX
DECODER

IP Link

MPX

RS232

RS232

MPX

RDS
SOFTWARE

RDS ENCODER

EXCITER

**Example 5:**

Sending MPX (analog or digital), and RDS data.
RDS encoder must be installed at transmitter site.