System Examples #3

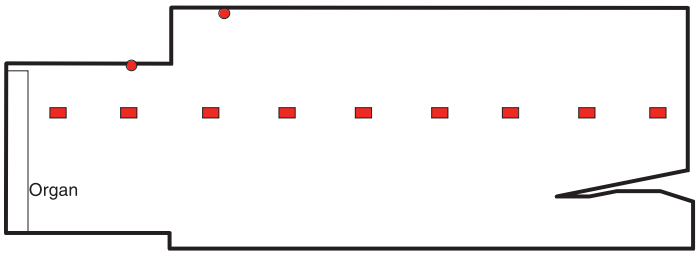
Church with 1,000 seats

Purpose of installing AFC

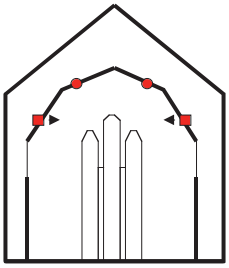
1. Extending reverberation time for Reverberance

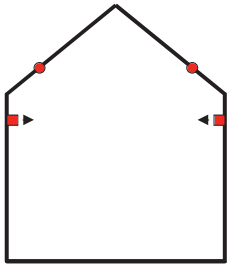
Style	Necessary Condition	Functions of AFC
Speech	High Speech intelligibility	
Chorus	Optimum Reverberance	Extension of RT
Organ	Optimum Reverberance	Extension of RT
	Proper RT for Organ music	Increase of RT at low frequencies

System Configuration

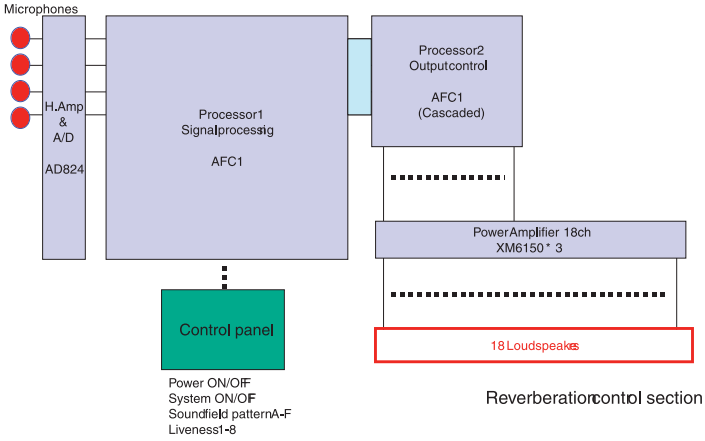


● : Microphone for reverberation
■ ▲ : Loudspeaker for reverberation





System Diagram



System Examples #3

Church with 1,000 seats

System components

No.	Description	Specification	Model	QTY
1	Microphone	e.g. Miniature Boundary-Layer Capsule Frequency range: 20 Hz - 20 kHz Sensitivity: 19 mV/Pa Equivalent noise level: A-weighted: 12 dB-A ,CCIR: 23 dB Signal-to-noise ratio (A-weighted): 82 dB-A Maximum SPL(0.5% THD): 128 dB	-	4
2	Head amp & AD	24-bit linear, 128-times oversampling Frequency response -3, +1dB, 20Hz-20 kHz, GAIN -62 dB Dynamic Range 110 dB Hum & Noise Level -92 dB	AD824	1
3	Sound field processing		AFC1	1
4	Output control section		AFC1	1
5	Digital I/O card		MY8-AE	2
6	Analog output card		MY8-DA96	3
7	Power amplifier	Output level 100 W*6ch THD+N <0.2% S/N Ratio 100 dB Channel separation >60 dB	XM6150	3
8	Loudspeaker	e.g. Frequency Response 60Hz-16kHz Power Rating program/peak 300/600 Imp 8Ω SPL(1W,1m) 97dB	-	18
9	Control panel	Power ON/OFF System ON/OFF Sound field pattern 6 Liveness 1-8	Custom	1