



► Model GENII-RA700

PAGASYS® Gen II Remote Amplifier

Federal Signal has designed a new two channel 700W remote amplifier chassis, model GENII-RA700, as an addition to the PAGASYS Gen II product family. This new 2U form factor rack mountable amplifier provides the user the capability of supporting PA/GA services remotely using an Ethernet interface without the need for a full PAGASYS Gen II cabinet.

The remote amplifier, GENII-RA700, utilizes interfaces for two analog audio inputs and a Dante® audio over IP interface over which the amplifier can receive up to four digital audio channels. The amplifier is also able to store and broadcast pre-recorded messages. The new remote amplifier utilizes these audio sources to broadcast through two 350W channels that use thermally controlled gain management to ensure stable output.

The amplifier provides four onboard configurable digital inputs and two configurable signal relays in addition to a fault relay and a configurable power relay intended for switching Beacon circuits. The amplifier also provides a PAGASYS Gen II I/O port that allows the user to utilize the standard PAGASYS Gen II I/O cards.

The amplifier's four digital control inputs can be configured to initiate control for the beacon relay, support control for broadcast of the local pre-recorded audio messages or provide PTT function for its two analog audio inputs. Amplifier faults are reported via the local fault relay contacts. Multiple RA700 amplifiers can be connected in a two-channel amplifier standby bus configuration to provide dual channel N+1 amplifier redundancy.

The new amplifier can operate in standalone or networked mode. In networked mode, the GENII-RA700 is controlled and monitored over an IP network connection by either a PAGASYS Gen II controller or a new GENII-RC remote controller. The controller can provide Dante® digital audio to the amplifier and selects which of the amplifier's two analog or digital audio inputs are dynamically routed to the two amplified channels.

When in standalone mode, the amplifier routes its analog audio inputs to the amplifier output channels and reports faults via its local fault relay output. In this mode the amplifier can also be configured to broadcast local pre-recorded audio files. The amplifier chassis includes four digital control inputs that can be configured to initiate local beacons, or control selection of the local analog audio port or pre-recorded audio. When the amplifier is operating in networked mode and the network connection is lost, the amplifier can be configured to operate in standalone mode until network control signals are restored.

FEATURES

- Digital audio over Dante®
- Two 350W output channels
- 100 or 70 Vrms audio output
- Two analog audio inputs
- Four digital inputs
- Fault, beacon, and 2 programmable relay outputs
- Dual channel Amplifier Standby
- Control/Monitoring via Controller or Standalone
- PAGASYS Gen II I/O Port
- Speaker impedance monitoring
- Amplifier fault monitoring
- 2U 19" rack interface

PAGASYS Gen II Remote Amplifier

SPECIFICATIONS

Operating Temperature:	-10°C to +55°C
Power Input AC versions:	
Input Voltage Range	96/264VAC
Frequency	47-63Hz
Max Operating Power	850W
Power Input DC Version:	
Input Voltage Range	40-56VDC
Max Operating Power	850W
Amplifier Audio:	
Quiescent Power	(120VAC) 45W (0.375A)
Rated Output Voltage	70/100 Vrms
Maximum Output Power	350W per channel
Frequency Response	200-15,000Hz
THD	<1%
Sensitivity	@1KHz 0.775Vrms
Dimensions (HxWxL)	88 mm x 483 mm x 456 mm
Weight:	7.7 kg/17.0 lbs
I/O (rear of chassis):	2 x Audio Inputs
	2 x Amplified Audio Outputs
	2 x RJ45 Dante®/Ethernet Port
	Dual Channel Amplifier Standby Bus
	RJ45 I/O Interface
	4 x Digital Inputs
	2 x Programmable Relay Outputs
	Beacon Power Relay Contact
	Fault Relay Contact

HOW TO ORDER

Description	Part Number
PAGASYS Gen II 100V Remote Amplifier	GENII-RA700
PAGASYS Gen II 70V Remote Amplifier	GENII-RA700-70
PAGASYS Gen II 100V Remote Amplifier 48VDC	GENII-RA700-48
PAGASYS Gen II 70V Remote Amplifier 48VDC	GENII-RA700-70-48

ACCESSORIES

Description	Part Number
US Power Cable for PAGASYS	PK-POWERCABLE-US
UK Power Cable for PAGASYS	PK-POWERCABLE-UK
EU Power Cable for PAGASYS	PK-POWERCABLE-EU
Rear Mounting Brackets for RA700	PK-GENII-BRKT-G



Rear Panel GENII-RA700

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