

**RF41**  
**A**
**FM03**

## Selective FM repeater / Multiple emergency messages transmitter



ARF41 range's FM03 repeaters are used for selectively repeating a channel on the FM broadcasting bandwidth. It thus ensures that radio programmes are received without disruptions and that several alert messages can be broadcast in closed environments. It is usefull on all the 87-108MHz FM bandwidth.

Its structure allows it to repeat an FM channel over several transmission channels (parallel tunnels, parking lots with several levels, etc.). In accordance with new European regulations, the possibility of including distinct alert messages on each transmission channel (typically 2, maximum 6) is included.

Configuration is carried out through an embedded http server that can be accessed using a standard web browser (Internet Explorer, Firefox, etc.).

FM repetition is made up of an "RF/FI downconverter" module and as many "FI/RF upconverter" modules as there are transmission channels.

They are in the form of 3U 7F plus-in units built into a 19" subrack, which is common to the entire ARF41 range, and can host up to 12 modules.

## Specifications

### • Electrical properties

Frequency agility  
System Channel Bandwith  
Sensitivity  
RF Power  
Harmonic distortion  
RF input attenuation  
Audio input  
Insertion control  
Supply voltage

87 / 108MHz in steps of 50kHz  
300kHz  
-95dBm  
+10dBm (Class A driver) or +27dBm (Class A P.A.)  
<0.5%  
Progr. from 0 to 20dB  
Symmetric, 12dBu nominal/600ohms (integrated limiter)  
Dry contact, 12Vdc control or http server  
12Vdc - 20/72Vdc - 100/240Vac

### • Configuration and Supervision

IP management  
Alarm summary on dry loop  
Remote control and remote signalling  
LEDs on front

Embedded http server  
Available on backplane connectors  
Available on backplane connectors  
Power supply, alarm summary, reception limit, alert messages

### • Mechanical properties

"Downconverter" front connectors

"Upconverter" front connectors  
Emergency message audio input  
Backplane connectors  
Dimensions

SMA : 1 RF input and 2 FI outputs (usually for 2 transmission channels, but can be extended to up to 6 using an external splitter)  
SMA : 1 FI input and 1 RF output  
BINDER 3 pts  
RJ45 (Ethernet) - SubD15 (TC/TS) - Power supply  
19" 3U subrack (up to 12 modules per rack)



## Part Numbers

Download them on the product page, on our website  
[www.adeunis-rf.com](http://www.adeunis-rf.com)

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