

## Developed "Low Profile Receiving Antenna for North American Digital Audio Broadcasting"

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### ■ Summary

Yokowo has developed "Low Profile Receiving Antenna for North American Digital Audio Broadcasting", and has obtained product certification from XM Satellite Radio, USA.

### ■ Background

XM Satellite Radio, the service provider being affiliated with General Motor (GM), started digital satellite broadcasting service in last September in Dallas and San Diego, and developed its service nationwide. As of April, its subscribers overreached 76,000, and XM Satellite Radio expects they reach 350,000 by the end of this year. Not only the After Market but also the devices have been equipped onto new vehicles, and more than 20 models of GM will be equipped the XM Radio. The expansion of market volume in the new vehicles is also expected.

At the time of the service launches, we already released certificated dual-band cone-shaped antenna capable of receiving satellite/terrestrial, and this time we successfully produced much lower profile antenna (44mm to 22mm in height) and achieved significant downsizing. The certification from XM Radio at this time is for this low profile antenna.

### ■ Outline of Low Profile Antenna

This antenna consists of in-house ceramic antenna for the satellite and M-type capacity-loading antenna, which applies elemental antenna techniques, for terrestrial, and respectively the latest low noise amplifiers are employed.

"Low Profile Receiving Antenna for North American Digital Audio Broadcasting"

	Satellite	Terrestrial
Antenna Gain	2dBic Min. (Elevation Angle 20°-60°)	-1dBil Min. (Elevation Angle 0°)
LNA Gain	20-24 dB	18-22 dB
LNA NF	1.7dB Max.	2.0dB Max.
Size	84(L)×73(W)×24(H) mm	

\*Antenna 3D Directional Characteristics available upon request.



#### ■ Future Plan

The series production for this product in early stage shall be carried out at our domestic production site, Tomioka Factory (Tomioka City, Gunma Pref.), which is well equipped with Microwave-related production technique, inspection and measurement facility. From the end of calendar year along with the expansion of production volume, we plan to shift the main production site to overseas Dongguan Yokowo Car Components Co., Ltd. (Dongguan City, Guandong, China).

In the coming years, we plan to develop and produce multi-band antenna combined of this Digital Satellite antenna and Telematics expanding its demand in the US market.



Photo:"Low Profile Receiving Antenna for North American Digital Audio Broadcasting"

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