

KATHREIN are pleased to announce the introduction of a new antenna family.

High Efficiency Antennas

The first adjustable tilt version, **80010636** is scheduled for product launch during 3rd quarter 2009. Further models such as **80010638** and **80010378** will follow.

Application

Many possibilities are currently being discussed to increase mobile cellular coverage and network capacity, thereby saving valuable energy and site related costs. KATHREIN's technology advancements now make it possible to deploy adjustable tilt antennas with unbeatable high gain values with respect to the length of the antenna. Unique antenna design features reduce internal antenna losses and optimize radiation patterns.

Key features of the forthcoming antennas

Type No.	Product Proposal		Product Proposal
	80010636	80010638	80010378
Frequency range	1710 – 2200 MHz	1710 – 2200 MHz	1710 – 2200 MHz
Polarization	+45°, -45°	+45°, -45°	+45°, -45°
Gain at 0° tilt	2 x 19 dBi	2 x 20.5 dBi	2 x 21.2 dBi
Half-power beam width:	Horizontal: 62°	Horizontal: 62°	Horizontal: 62°
	Vertical: 6.2°	Vertical: 4.1°	Vertical: 3.5°
Front-to-back ratio (180° ±30°)	≥ 28 dB	≥ 28 dB	≥ 28 dB
Cross polar ratio at 0°	25 dB	25 dB	23 dB
Sector ±60°	≥ 10 dB	≥ 10 dB	≥ 10 dB
Electrical tilt	0°–8°	0°–6°	0°–8°
Sidelobe suppression for first sidelobe above main beam	> 15 dB	> 15 dB	> 16 dB
Dimensions	1400 / 155 / 89 mm	2050 / 155 / 89 mm	2520 / 155 / 89 mm

Please contact your local KATHREIN partner for any further queries you may have or mail to antennas.mobilcom@kathrein.de -