



Maser Group News

About Us

Established in 1983, the Maser Group has grown into a multi-national company with offices in Australia, New Zealand, UK and France.

Maser Australia is a diversified distributor of specialised products and services including Test and Measurement, RF Transmission, studio, industrial cable and instrumentation to the telecommunications, broadcast, manufacturing and defence markets.

New Products

Instrumentation products added to product range

Maser recently added a new dimension to their already extensive product range. **Mechanical Pressure Gauges** are now part of the new Instrumentation range Maser has available.

In alliance with **ITEC** (Italy) who are known for their high quality pressure and temperature instruments, Maser will now provide a range of products that include pressure gauges, differential pressure gauges, thermometers, thermowells, diaphragm seals, valves and accessories.

Dialight lights exclusively by Maser

Maser is now officially Dialight's exclusive distributor in Australia and New Zealand for the LED obstruction lights used for towers/masts. The lights are now CASA certified and FAA approved. They feature state-of-the-art high intensity LEDs that use 90% less power and last up to 10 times longer than incandescent lamps, significantly extending replacement intervals and reducing tower maintenance costs.



Interference hunting tool for RF Network optimisation

Tektronix has announced a new addition to the NetTek portfolio. The RF Scout Interference Hunter provides all of the tools necessary to hunt for RF interference and check signal quality in one rugged, handheld platform, enabling network performance planning and optimisation teams to explore, discover, analyse and document interference or other signal quality problems in a field-ready tool.

The handheld form factor, performance and durability make measurements convenient, reliable and accurate whether inside a building or outdoors.

Current Project

Kathrein's Trisector Pipe antenna

Maser's Wireless Group has installed **Kathrein's** very low profile UMTS/GSM1800 **Trisector Pipe antenna**. Picture is showing one of the antennas installed at Greenfield Park, NSW.

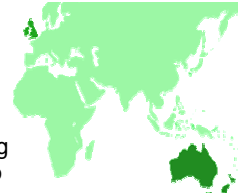
Features full Remote Electrical Tilt and special built service area to incorporate a single unit TMA that provides up to 3x Double Tower Mounted Amplifier for each of the three antennas within the top radome. A special low profile characteristic provides appearance of less than 1.4m height and only 0.23m diameter.

General Manager - Brad Woods

Brad has been with the Maser Group since 2004 and has played a key role in leading and growing the business into an even stronger and more competitive organisation.

"The Maser team has very successfully managed to further expand our product and services portfolio within our niche areas of expertise. This has ensured we are able to deliver a broader range of relevant solutions to our clients to meet their increasing demands of business" states Brad.

Brad has a diverse background across engineering and finance disciplines having held several management positions including; Esso Australia, Nalco Australia, Ernst & Young and Energetics Consulting.



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In brief:

- **Maser's defence division** is working in partnership with leading Defence departments and suppliers, providing Automatic Test and Measurement systems (ATE). Maser exhibits at TecXpo in Adelaide in August.
- **Vodafone** has selected Maser as the 3G/WCDMA Antenna and general infrastructure products vendor.
- **France website**, Maser France website is now online www.masergroup.com/fr
- **Maser's UK office** has been successful in meeting the July 2006 deadline to be RoHS compliant with their Alpha Wire products.

Contact Details

Sydney office
Unit 9, 15b Rodborough Rd
Frenchs Forest NSW 2086
Ph: 02 9452 6062
Fx: 02 9452 6340

Melbourne office
Unit 9, 7-17 Geddes Street
Mulgrave VIC 3170
Ph: 03 9561 3577
Fx: 03 9561 3277

Brisbane office
Building 6, 18 Torbay Street
Sunnybank Hills, QLD 4109
Ph: 1300 130 722
Fx: 1300 880 621

Email:
info@maser.com.au

Website Address:
www.masergroup.com



Wireless Infrastructure News

Product Highlights

Kathrein's Remote Electrical Tilt System (RET)

The major component controlling the Remote Control Unit (RCU) is the Central Control Unit (CCU), which is located at the BTS. Up to 27 RCU's can be connected on one CCU. In order to cover all required applications, the CCU provides access from the Operational Maintenance Centre (OMC), as well as via a laptop for onsite tilt changes/setup.

The most important feature of the Kathrein RET system is that the tilt provided by the RCU's is able to be adjusted as required by the optimisation of the network via one central location (OMC), but **without the need for the antenna to be operating via live RF.**



UMTS Products for Special Applications

In addition to our cross-polarised broad-band UMTS antennas, Kathrein's product portfolio also includes vertically polarised UMTS antennas, e.g. a multi-band omni directional antenna with high gain for fast network set-up. To complete our UMTS range, our indoor products now cover an extended frequency range up to 6 GHz, including WLAN and WIMAX.



Wideband Antennas (Multi-band and 2-Multi-band)

Kathrein's multi-band antennas extend the active frequency range up to 1710-2170 MHz. These antennas are suitable for operation in all three mobile communication frequency bands of 1800, 1900 and 2000 MHz, which can lead to a considerably reduced number of antennas needed by network operators. In the case of 2-multi-band versions, two identical antennas are integrated into one radome for independent down tilting.

Producing more than 70,000 mobile communications antennas per month, Kathrein is not only the world's oldest, but also the largest antenna supplier, with a current global market share of 49%.



Passive Devices available from Maser

This Maser series of Powers Splitter and couplers are designed to split cellular signals with minimal reflection and loss. Its reactive design employs no resistors eliminating their contribution to product intermodulation. With few solder joints and an air dielectric, the loss has been minimised and reliability enhanced. Their mechanical shapes allow easy installation on the wall or the pole.

The ultra wide frequency range allows use with multiband antennas, leaky cable systems. Range of passive devices available from Maser include couplers/ tappers.



CommunicAsia2006

Maser had a successful visit in June to CommunicAsia2006 where Kathrein was exhibiting.

The event proved to be a perfect meeting point with many potential suppliers and customers coming together in Singapore.



Wireless Solutions Team Member - Liwen Zhang



Liwen has been an valuable member of Maser's wireless solutions team for the past year. As Business Development Manager for the RF Group, he has extensive knowledge of RF path solutions, WFT, Wireless Field Tests from a number of suppliers.

Liwen has 16 years industry experience, including 9 years at Motorola and 3 years at Andrew. You can contact him on liwen.zhang@maser.com.au or mobile 0410 677 617.

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In brief:

- The credibility and reliability of Kathrein antennas and other related products is emphasised by the fact that they are used by over **240 network operators** throughout the world.
- All **Communication catalogues, CD-roms and any radiation patterns** are available through Maser direct.
- Maser's Sales Manager Steve Clifton will be attending the next global meeting of sales managers at **Kathrein's** head office in Germany.
- Maser represents **Comba**. Their product range includes digital microwave systems, antennas, repeaters, boosters and tower mounted solutions for all international standards and protocols.
- Discover **Tektronix'** modular, easy-to-use solution to mitigate network operators' QoS issues. The NetTek® BTS Field Tool revolutionises the way mobile network base stations can be serviced and maintained in the field.

Contact us today to speak to one of our wireless infrastructure specialists.

Ph: +61 2 9452 6062

Email: info@maser.com.au