

CIRRUS WIRELESS DESIGN PLAN

Detailed design document for the customer installation. Covers location of the antenna on the building to achieve line of site to the transmission site, roof penetration, cabling to customer's offices and instructions for qualified Cirrus installer



Macquarie Telecom has engaged Cirrus Communications to install a Cirrus wireless Ethernet service for their client, Sony DADC at 23-107 Erskine Park Road, Erskine Park, NSW. To provide this service, permission is required for the installation of a small mast and a microwave antenna on the rooftop. Cabling to the tenant's location is also required.

This document highlights the path to transmission site, mast location, example mast and antenna and cable path to tenant.

23-107 Erskine Park Road, Erskine Park, NSW



Path to transmission site



Location of Cirrus Mast



- We plan to install up to a 10m mast

- Mast itself and both stay arm anchor points will be connected to the roof using existing roof rivets to avoid new penetrations
- Polyurethane will surround the bolts thus creating a water tight seal.

Example Mast



Antenna



Ubiquiti PowerBridge (data sheet attached to this document)

- Low powered device
- Powered using Ethernet cable supplied from tenant
- Do not require a “General Public or Occupational Exclusion Zone” due to low power output

Cabling Approach

The cable run will be run in 1 long cable from mast all the way to tenants hand off location.

- Cable run will start at the mast on the roof.
- From the bottom of the mast it will run externally over to the nearest cable riser.
- Once above the cable riser it will enter the riser via an already existing hole. If no existing hole is present one will be made and then sealed with polyurethane to keep it water tight.
- The cable will then follow the cable riser until it reaches the level required.
- Once it is on the level required it will exit the cable riser and enter the false ceiling in the tenancy.
- From there it will run to above the tenants’ handoff location and drop down into their cabinet.