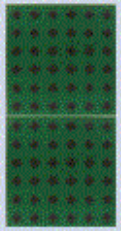
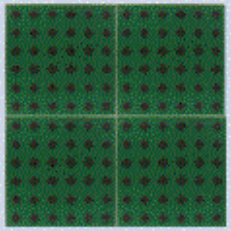
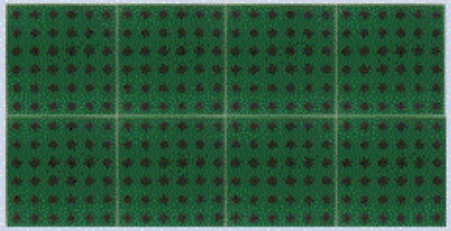
Please refer to below table have the information of W14's tile combination for combined mode.
The distance data coming from calcuration of loss.

## ☐ SWL-W14 Tile Combination

- 4 types of tile combinations are available

| Tile combination | 1 x 1 | 2 x 1 | 2 x 2 | 2 x 4 | Remark |
|---|---|---|---|---|---|
| Antenna array gain | 19.0dBi | 22.0dBi | 25.0dBi | 28.0dBi | |
| EIRP(mean.) | 35.0dBm | 40.0dBm | 40.0dBm | 40.0dBm | Under Regulation |
| Link margin(MCS8) | 116.0dB | 124.0dB | 127.0dB | 130.0dB | |
| Link Distance (with Oxygen) | 180.0m | 330.0m | 400.0m | 490.0m | @MCS8 |
| Link Distance (with Oxygen+Rain @ UK) 99.99% Availability | 145.0m | 275.0m | 330.0m | 390.0m | @MCS8 |
| Link Distance (with Oxygen+Rain @ CA) 99.99% Availability | 135.0m | 250.0m | 300.0m | 350.0m | @MCS8 |
| Implementation |  |  |  |  | |

Below is field test data by using 1x1 and 2x1 tile.

## Coverage Test

| Tile configuration | Items | 100m | 150m | 200m | 250m | 300m |
|---|---|---|---|---|---|---|
| 2x1 | Total throughput (Gbps) | 1,75 | 1,73 | 1,74 | 1,64 | 1,38 |
| 1x1 | | 1,69 | 1,37 | 0,13 | no link | no link |
| 2x1 | Peak (Gbps) | 2,24 | 2,30 | 2,22 | 2,27 | 1,68 |
| 1x1 | | 2,00 | 1,69 | 0,68 | no link | no link |

The 2x2 tile can reach around 400m @MCS8. And we got the distance about 600m with 2x4 tilles.
As you know, it is really depend on test conditions.

And regarding the Talyn SW, SEMCO can not managing it. We also have to wait for QC's official release.
This week, I asked for QC sharing of SW CS plan and waiting for their reply.

As a my personal opinion, I suggest you develope the first QC solution product by using of MP stage module, like W14 and W26F.
We can swap it with Talyn later.