

Peel Children's Aid Society facility at 25 Capston Dr., Mississauga. The lower level required reliable multi-carrier service.

SureCall Case Study:

Multi-Carrier 5G Coverage Delivered with Fusion Ultra 5G

A one-day Extendacell Technologies installation transformed a 25,000 sq. ft. basement coverage gap in a public-facing community centre into reliable multi-carrier 5G service for Bell/TELUS, Rogers, Videotron and their flanker brands.

> "Calls were not being received due to having no service, including outgoing calls. When on calls, it was difficult to communicate due to the lack of service."
>
> **– Customer Feedback Before Install**

Customer:	Peel Children's Aid Society	**Target area:**	Approx. 25,000 sq. ft.
Installer:	Extendacell Technologies	**Install time:**	One day
System:	Fusion Ultra 5G	**Architecture:**	Rooftop donor mid & low band antennas+ two indoor antennas
Problem:	Missed calls and unreliable voice service	**Result:**	No reported incoming/outgoing call issues

THE CHALLENGE

The site had strong cellular service outside, but the lower level had very little usable service. Because the facility is public-facing, the solution had to support a mixed carrier population, not just one provider.

WHY FUSION ULTRA 5G

The important part was not simply adding gain. Fusion Ultra 5G is Canada's only eight-band commercial cell signal booster, supporting all major Canadian carriers and including AWS-3 and Band 7—mid-band spectrum conventional commercial boosters leave behind. That made it the clear fit for the carrier mix at this Mississauga site.

- Strong rooftop donor signal was available; the lower level was the failure point.
- By delivering more RF power to each indoor antenna, Fusion Ultra covered 25,000 sq. ft. with just two antennas, reducing cable, installation time and disruption.
- Fusion Ultra 5G delivers eight-band, multi-carrier coverage for all major Canadian networks, including key AWS-3 and Band 7 mid-band spectrum



Fusion Ultra 5G Installed On Site.

CORE POSITIONING

This is the ideal Fusion Ultra 5G story: good donor signal outside, poor service inside, a public-facing multi-carrier requirement, and a clean one-day commercial install.

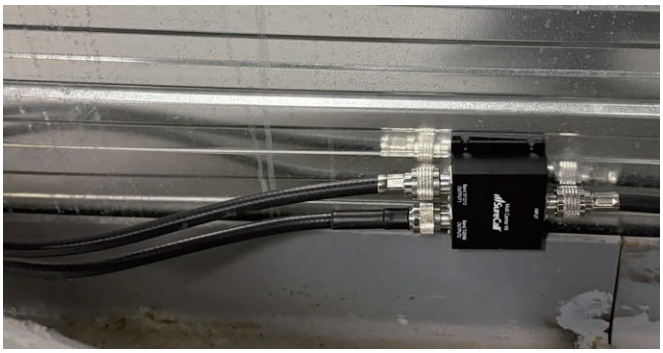
INSTALLATION AND RESULT: A clean, one-day commercial deployment



Rooftop donor antennas captured strong outside signal.



Cable path from roof into the lower level.



RF components and cabling kept compact and accessible.



Indoor dome antenna delivered service where needed.

TECHNICAL REASON IT WORKED

Fusion Ultra 5G was selected because the site required more than generic signal improvement. Its eight-band architecture amplified the Canadian carrier spectrum actually in use, including AWS-3 and Band 7. Dedicated low-band and directional mid-band donor antennas captured the appropriate spectrum, with the mid-band antenna helping deliver stronger RSRQ and service quality in the urban RF environment.

Band	Bell/TELUS	Rogers	Videotron
PCS	40 MHz	35 MHz	-
AWS-1	15 MHz	-	5 MHz
AWS-3	20 MHz	20 MHz	15 MHz
B-7	40 MHz	20 MHz	10 MHz

Local band profiling confirmed that AWS-3 and Band 7 were prevalent around the client's building. This is common in Canada. These are often carrier-preferred frequencies, and amplifying them helps deliver a more stable, reliable coverage solution.

DEPLOYMENT SUMMARY

Fusion Ultra 5G's two independent downlink ports fed the indoor antennas directly, avoiding splitter loss and preserving more power at each coverage point. This allowed approximately 25,000 sq. ft. of lower-level space to be covered with minimal hardware, cabling and disruption.

- High-gain rooftop donor antennas captured strong outdoor signals.
- The compact design reduced installation labour and complexity.
- The complete system was installed and commissioned in one day.

INSTALLER QUOTE

"Fusion Ultra 5G gave us the coverage and carrier-band support the customer needed—approximately 25,000 square feet from only two indoor antennas—in a straightforward system we could install in one day. Faster installations and lower costs mean better value for the client."

– Terry, Extendacell Technologies

CUSTOMER RESULT

"Since the installation, there has been no reported issues with our team regarding incoming/outgoing calls. Everything has been flowing seamlessly."

– Peel Children's Aid Society Feedback

FINAL TAKEAWAY

Fusion Ultra 5G turned a lower-level no-service problem into a one-day, multi-carrier commercial success story.