



5G-P700 broadband panel systems are designed for FeMBMS (Further evolved Multimedia Broadcast Multicast Service) applications in LTE and 5G 700 MHz bands.

The 5G-P700 panel antennas are designed as a building block for integration into complex antenna arrays suitable for high power broadcast mode overlay cells in LTE or 5G networks.

FEATURES / BENEFITS

- High power Broadcast overlay mode reduces the load on regular unicast LTE cells.
- Radiation patterns can be configured to maximize coverage where most needed.
- Circular or Elliptical polarization to improve in-building reception on portable devices.
- Independent polarization inputs allowing MIMO or MISO using orthogonal polarization.
- Traditional broadcast and LTE/5G can share the same antenna using VPT combiners.
- Omnidirectional or custom directional radiation patterns.
- Low wind loading.



Technical features

STRUCTURE

Product Line		5G-P700
Product Type		Antenna 5G Television

ELECTRICAL SPECIFICATIONS

Frequency Range	MHz	694 - 806
Polarization		Horizontal Vertical Elliptical Circular MIMO
Nominal Gain (Mid-band)	dBd	Refer to application Guide
VSWR		1.2:1
Power Rating	kW	2 x 2.5
Impedance (unbalanced)	Ω	50

MECHANICAL SPECIFICATIONS

Number of Channels		Multichannel
Input Connector		2 x 7/8" EIA
Dimensions (Height or Length)	cm (in)	94.0 (37)
Effective Area Front (full antenna) No Ice	m ² (ft ²)	Refer to Application Guide
Design Wind Speed	km/h (mph)	240 (150)
Pressurization Operational	kPa (psi)	7 - 21 (1 - 3)
Pressurization Test	kPa (psi)	100 (15)

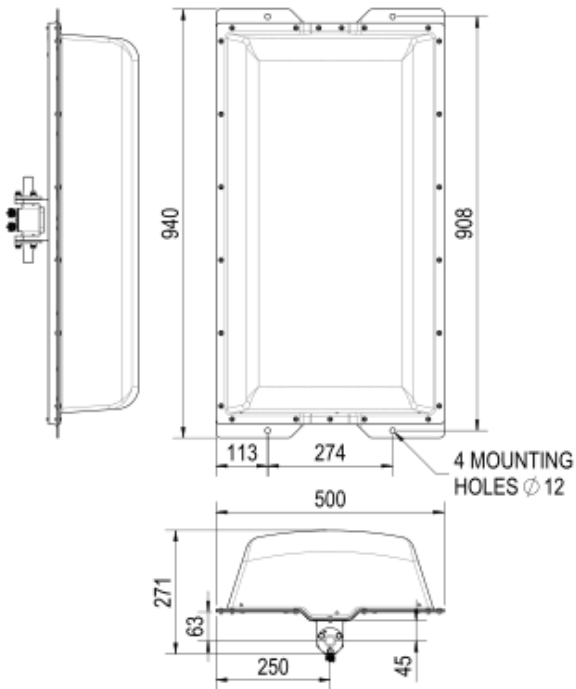
MATERIAL

Material - Insulators		PTFE
Material - Reflecting Screen		Corrosion resistant aluminum
Colour		White radome standard, other colours upon request

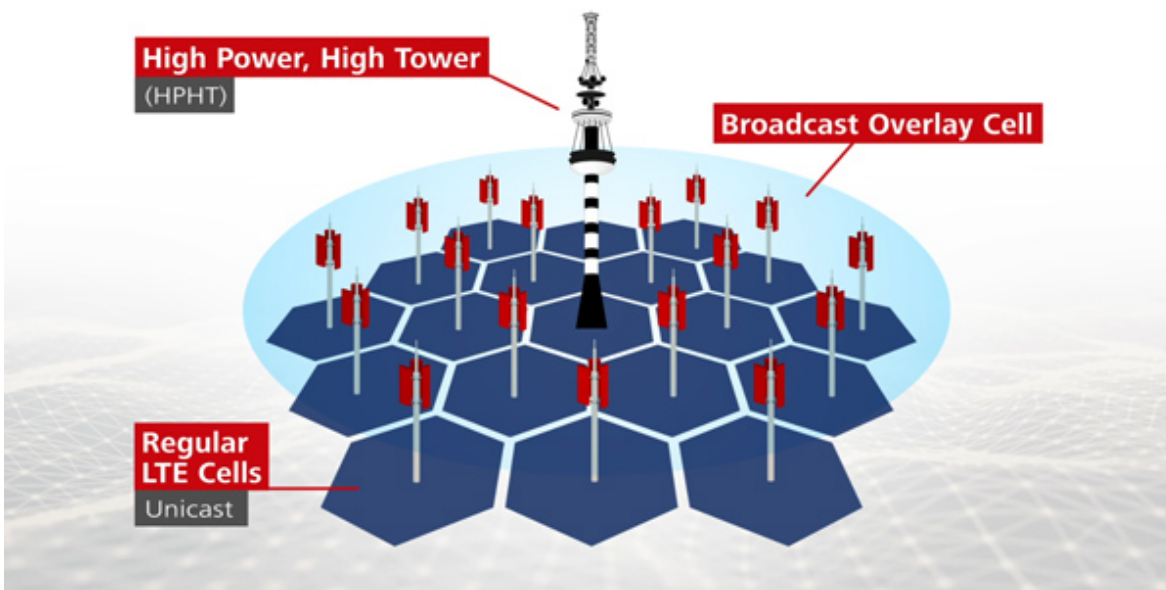


5G-P700

5G-TV Antenna for 5G Broadcast and FeMBMS



5G-P700 Dimensions



LTE Broadcast Overlay Cell Concept

External Document Links

- [RFS 5G Broadcast Video](#)
- [5G-S Series Antenna Datasheet](#)

Notes