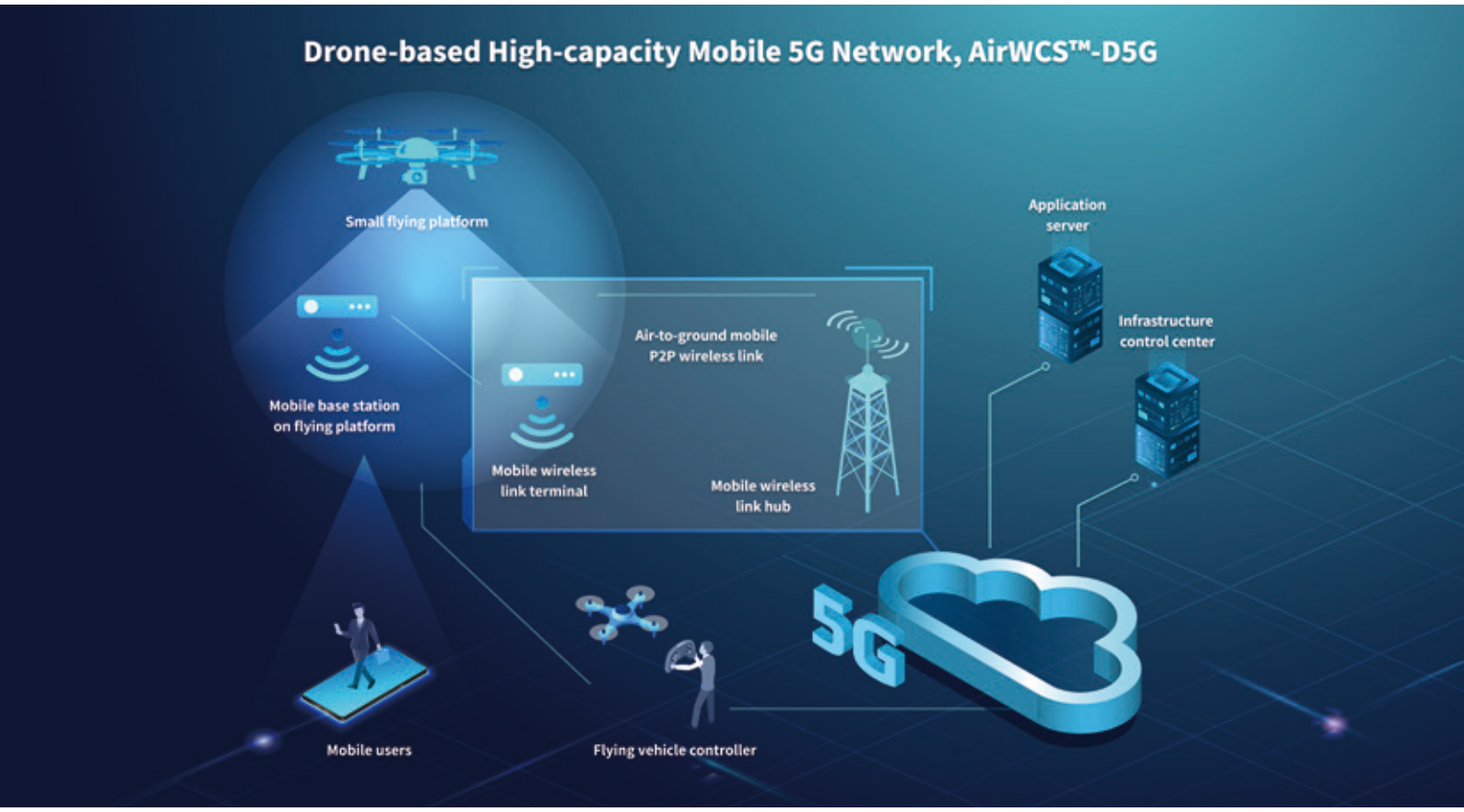
CONNECTING THE EARTH TO SPACE

XMW facilitates communication in the Earth and Space
with innovative SATCOM, RADAR, and wireless technologies.

WIRELESS

AirWCS™-D5G



APPLICATION

- Emergency mobile network
- Wireless backhaul system
- Wireless link system

CONFIGURATION

- Drone based flying platform
- Mobile 5G small cell base station
- Mobile P2P wireless link terminal
- Mobile P2P wireless link hub
- Drone controller

KEY FEATURES

- Small cell mobile 5G network
- P2P mobile wireless link
  - Frequency: 26.5-27.3 GHz (800MHz)
  - Capacity: 1Gbps max
  - Maximum distance: ~10km
  - Capacity at 10km distance: 200Mbps
  - EIRP of mobile P2P wireless link hub: 60dBm
  - EIRP of mobile P2P wireless link terminal: 48dBm

XMW

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SPECIFICATION OF RF TRANSCEIVER

PARAMETER	SPECIFICATION	REMARKS
RF Frequency	26.5 - 27.3 GHz	Ka-Band
IF Frequency	5.4 - 5.8 GHz	
Bandwidth	400MHz x 2FA	Depending on MODEM
Maximum RF Output Power	20dBm @64QAM EVM 25dB 23dBm @QPSK EVM 15dB 27dBm @max RF Pout of hub	
Gain	30dB	
Gain Flatness	7dB max / FA	
Rx NF	7dB	
REF Frequency	10MHz	
Rx to Tx Isolation	70dB min	
DC Power	+6V/5A	

SPECIFICATION OF FLYING TERMINAL ANTENNA

PARAMETER	SPECIFICATION	REMARKS
RF Frequency	26.5 - 27.3 GHz	Ka-Band
Gain	25dBi	
Bandwidth	6° min	
Reflection Loss	10dB min	
Connector	WR-28	

SPECIFICATION OF GROUND HUB ANTENNA

PARAMETER	SPECIFICATION	REMARKS
RF Frequency	26.5 - 27.3 GHz	Ka-Band
Gain	35dBi	
Bandwidth	2.1° max	
Reflection Loss	10dB min	
Connector	WR-28	