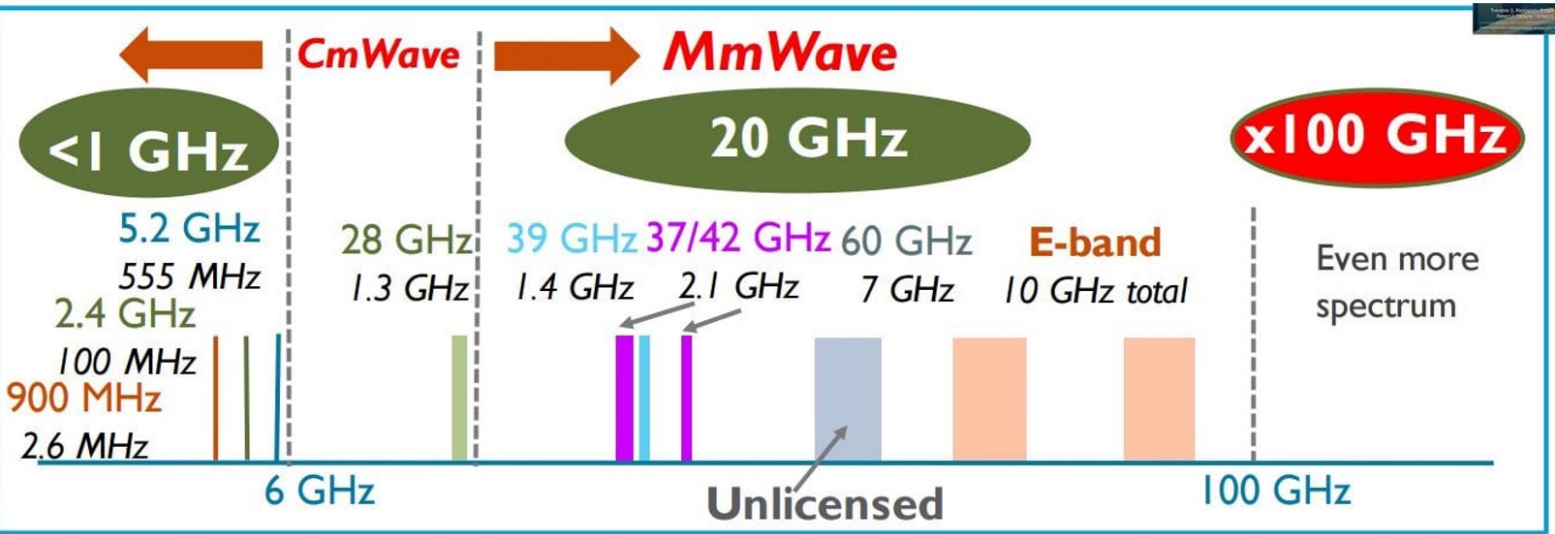
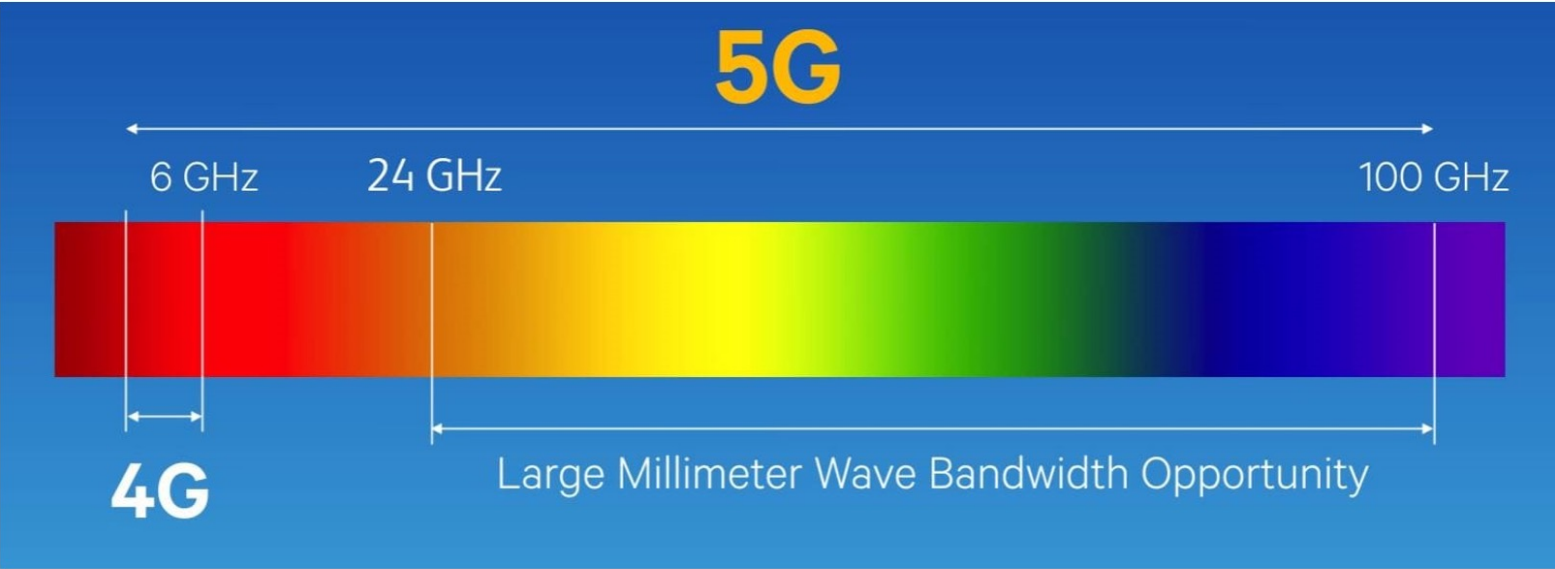


Aimtec's 5G Network Applications

What is the 5G Spectrum?



Applications Covered by the 5G Spectrum

 Low frequency
cells **700 MHz**

 High frequency
cells **3.4-3.8 GHz**

 Millimetre wave
cells **26 GHz**



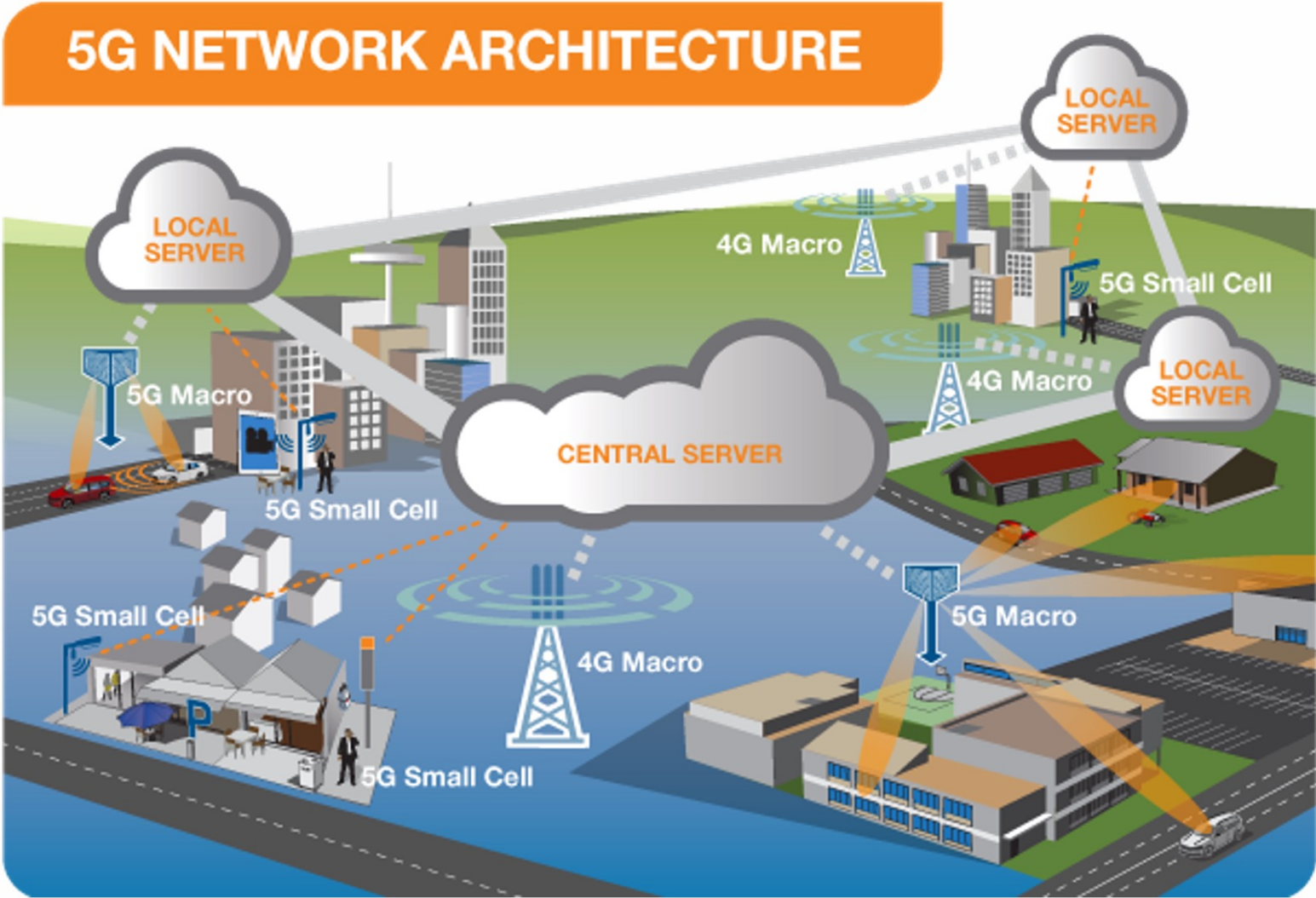
Large scale events
Thousands of users

Vehicle communications
Transport infrastructure

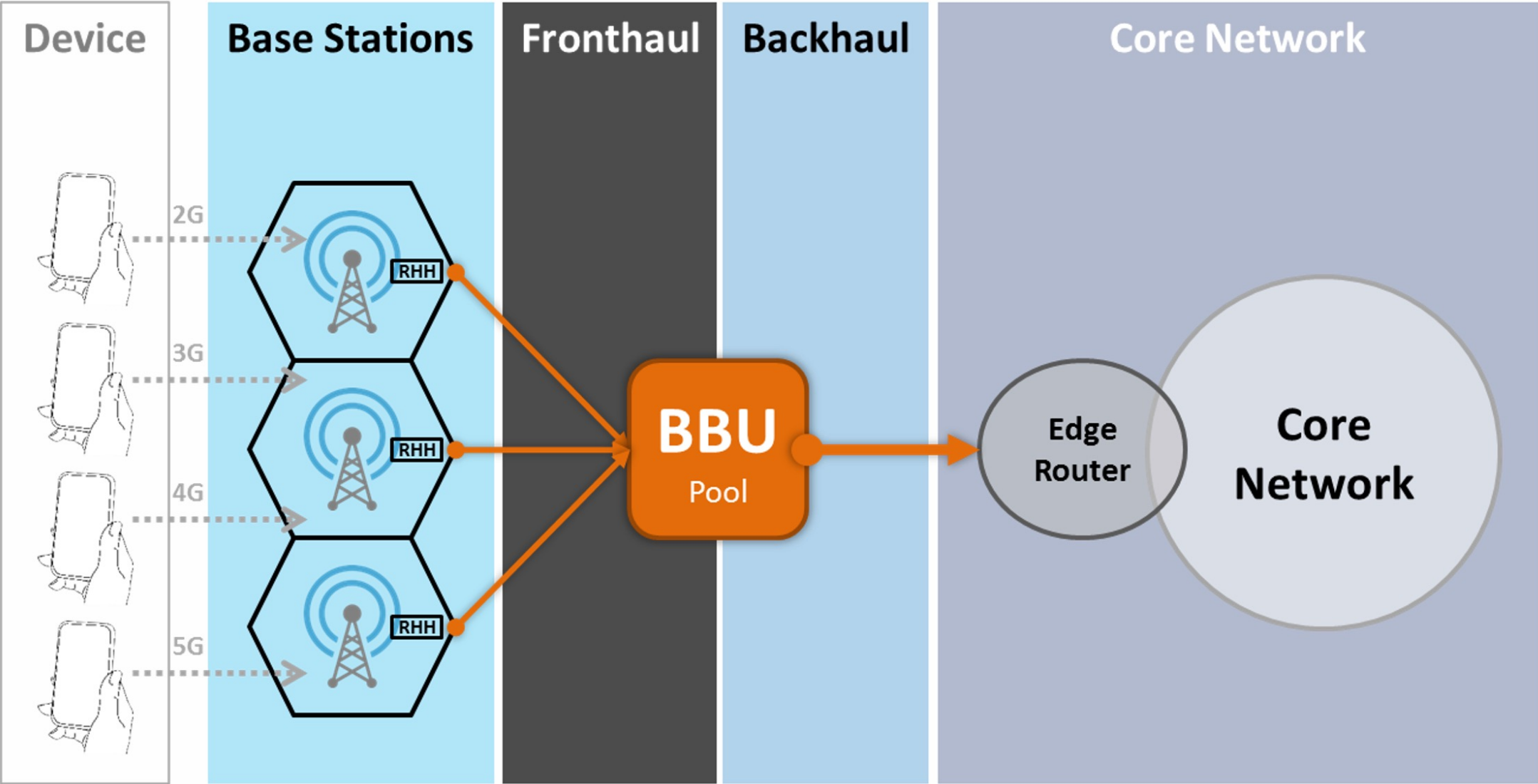
Environmental
monitoring &
Smart cities

Transport &
infrastructure

Improved residential
connections,
Smart energy

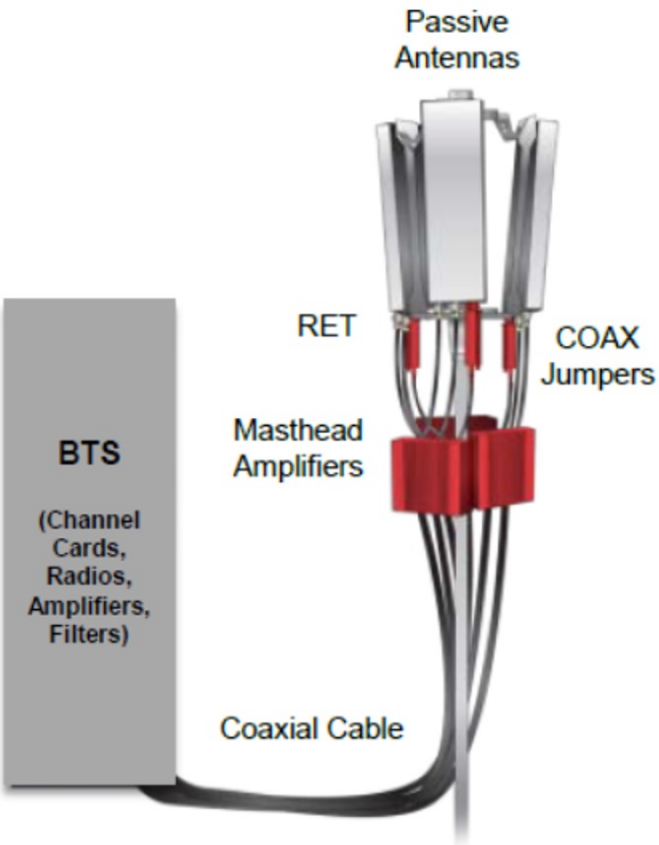


5G Architecture

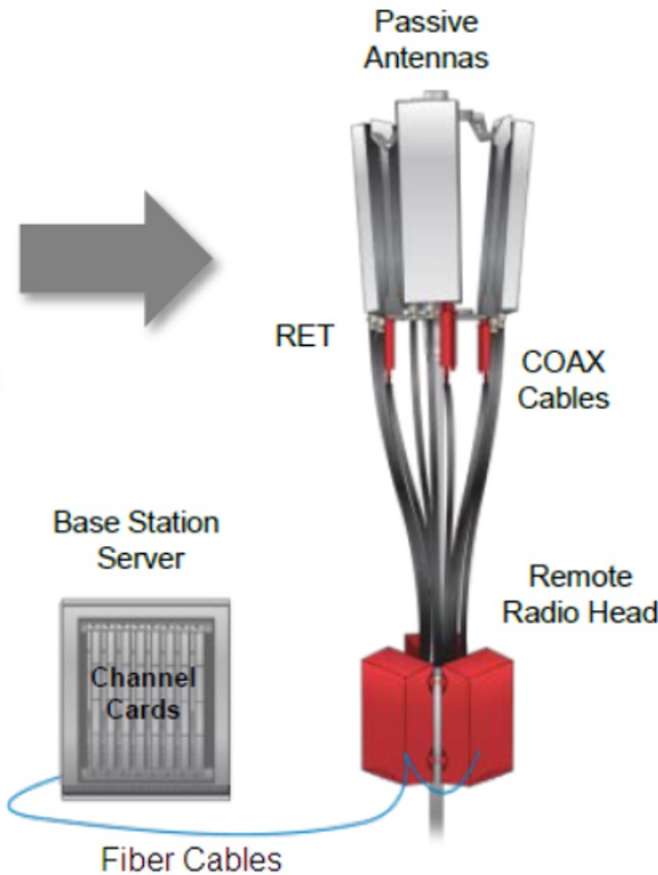


5G Base Station Architecture

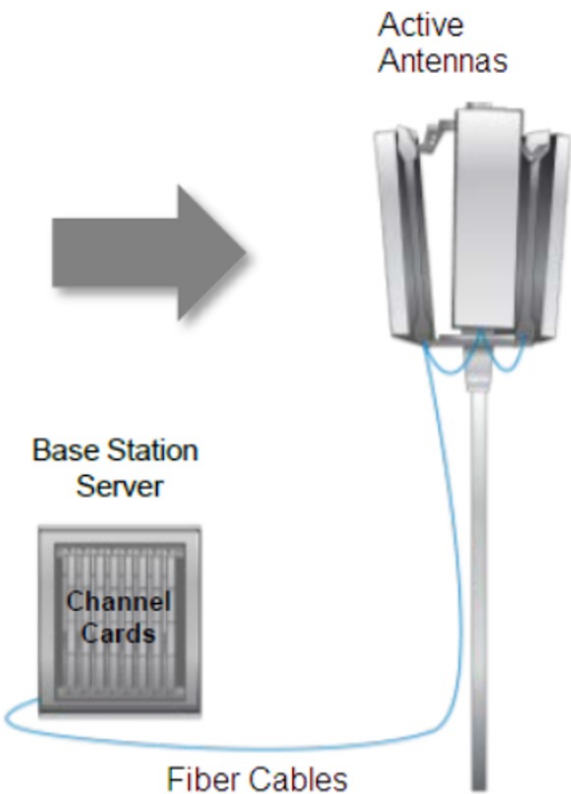
The Past Conventional BTS



The Present Remote Radio Head



The Future Active Antennas



Requirements for Power Supplies Used in 5G Applications

- 1) High Power density to minimize the space requirements
- 2) Low no-load power consumption to reduce power losses during idle states
- 3) High efficiency to reduce power consumption and heat produced
- 4) High Reliability to minimize equipment failures after deployment
- 5) Wide input voltage range and high isolation between circuits to cater to a wide variety of application environments.
- 6) Short transient recovery time for powering FPGA's and DSP's

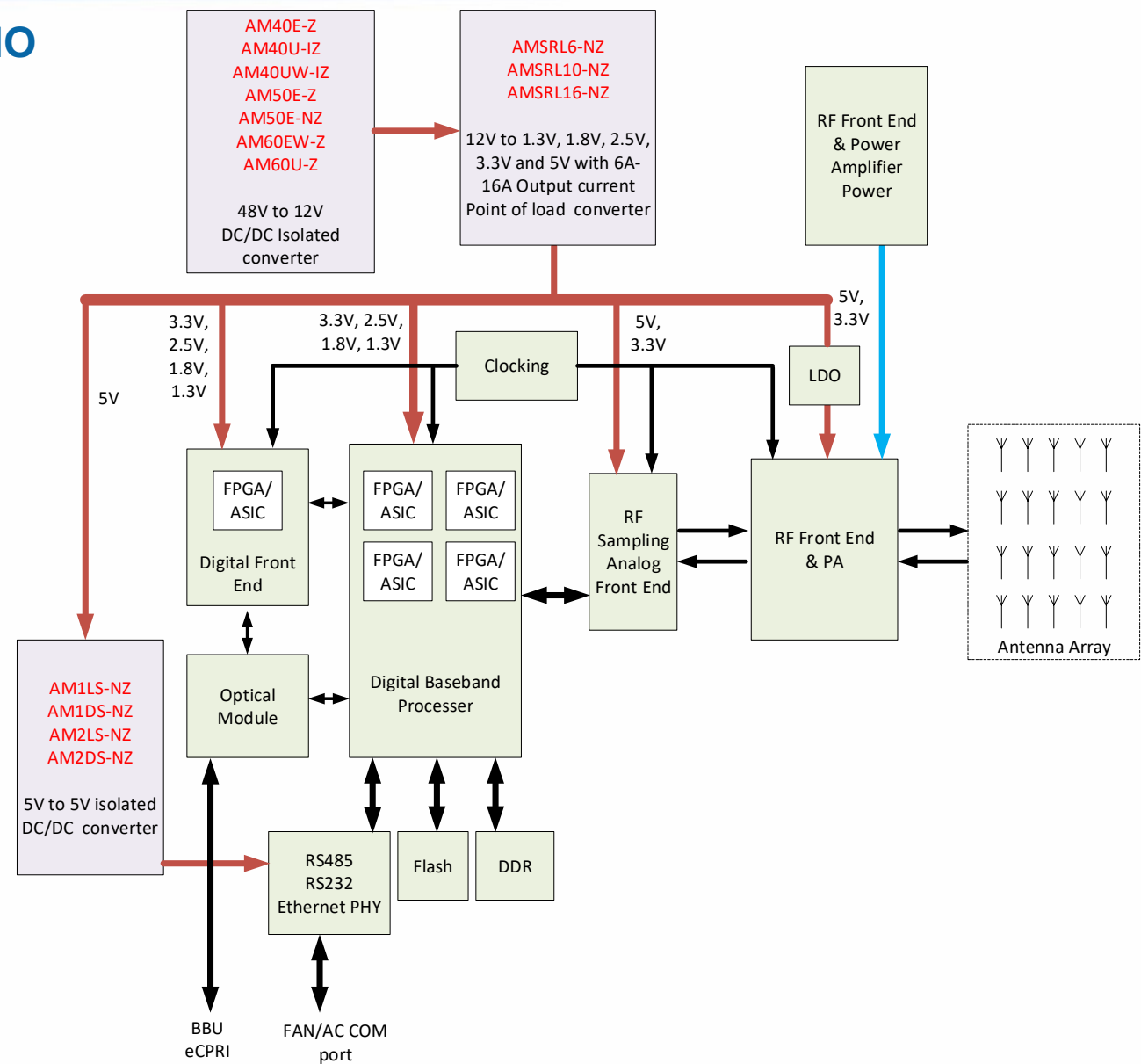


Aimtec Models for 5G Applications

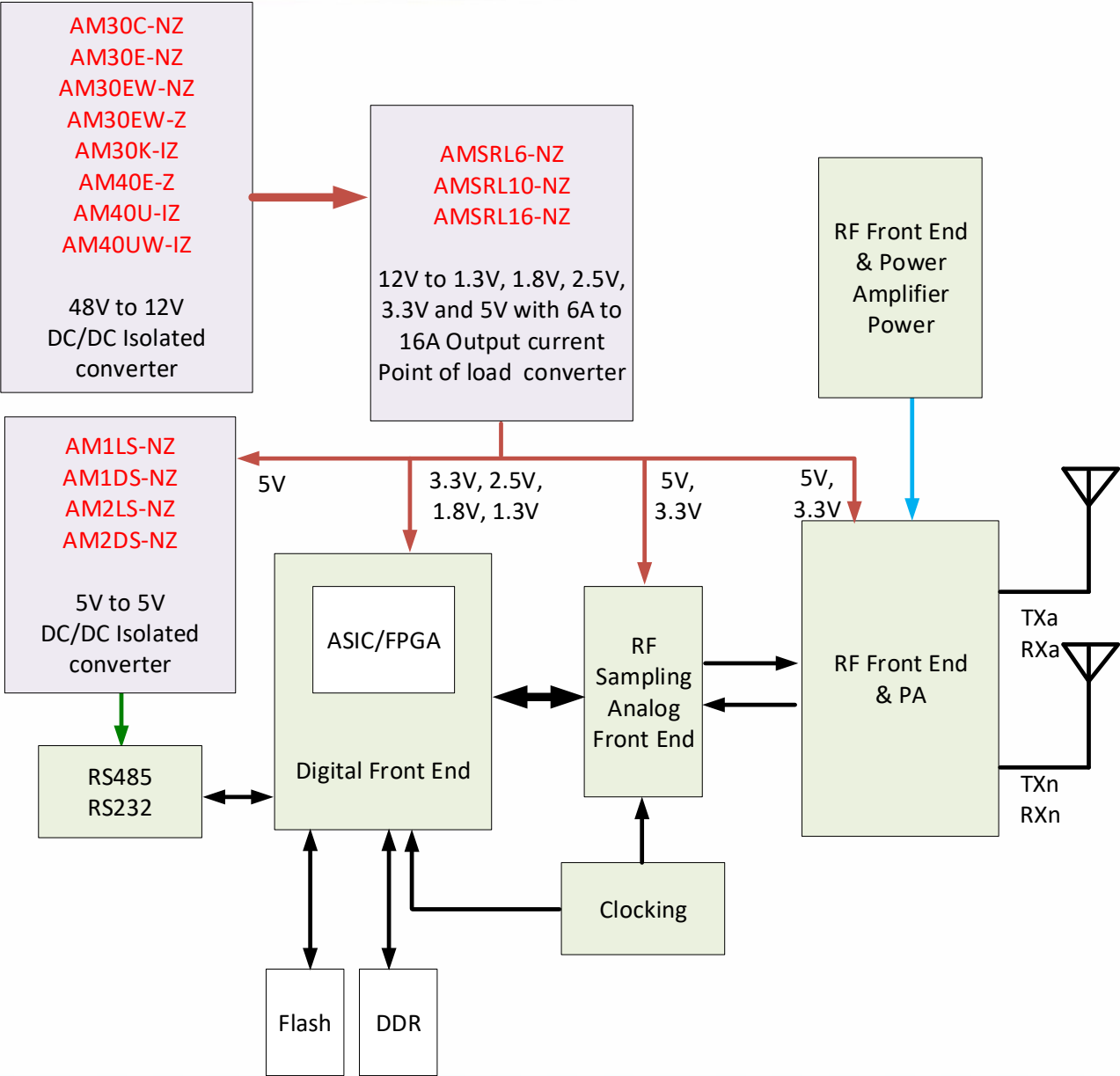
Universal input voltage 85-264 VAC, 18-75 VDC	High Isolation Between Circuits	High efficiency and max capacitance load.	Low no Load Power Consumption	Standards and EMC IEC/UL/EN 62368 and 60950 EN55022/32 Class B
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<u>Switching Regulators</u>	<u>DC/DC</u>	<u>DC/DC</u>	<u>DC/DC</u>	<u>AC/DC</u>	<u>AC/DC</u>
AMSWL6-NZ	AM1DR-JZ	AM6T-Z	AM20E-NZ	AME10-CVZ	AME30-MAZ
AMSWL10-NZ	AM1LS-JZ	AM6C-NZ	AM30K-IZ	AME15-CVZ	AME40-CJZ
AMSWL16-NZ	AM1DS-JZ	AM6G-NZ	AM30K-NZ	AME15-CJZ	AME40-MAZ
	AM1SS-JZ	AM10TW-NZ	AM40U-IZ	AME15-JZ	AME40-MJZ
	AM1G-Z	AM10CW-NZ	AM50E-NZ	AMEL20-CJZ	AME60-MJZ
	AM1A-Z	AM10E-SZ	AM60EW-Z	AME20-CVZ	
	AM2G-Z	AM10T-NZ	AM60U-Z	AME25-CVZ	
	AM3G-NZ	AM15E-NZ	AM75QB-NZ	AME25-JZ	
	AM3T-NZ	AM15E-Z	AM100QB-NZ	AME25-CJZ	
	AM5T-Z	AM15CW-NZ	AM150QB-NZ	AME25-MJZ	
	AM6T-NZ	AM20CW-NZ	AM150HB-NZ	AME25-VZ	

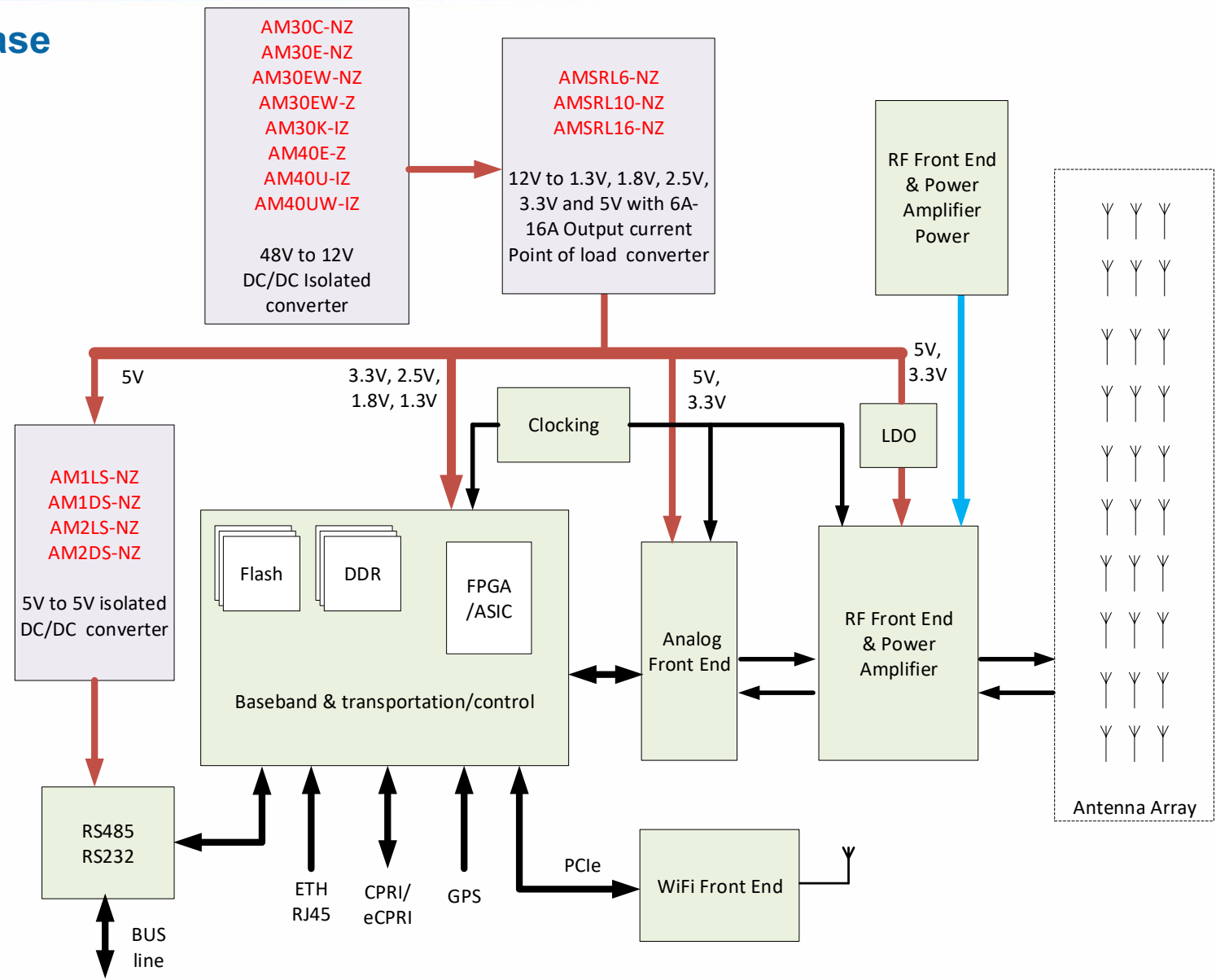
Block Diagram – AAS massiveMIMO Sub 6GHz



Block Diagram – Remote Radio Unit Sub 6GHz



Block Diagram – Small Cell Base Station



Thank you for choosing Aimtec!