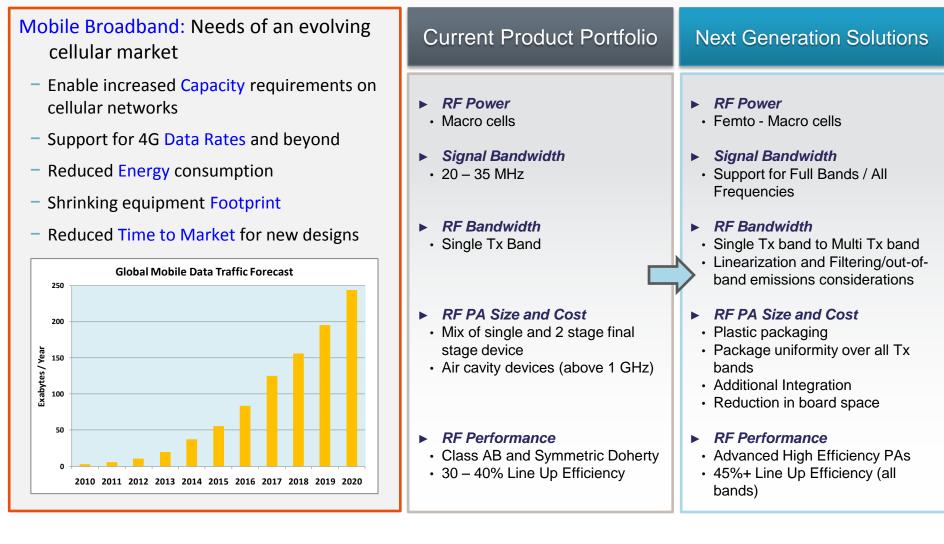


## Freescale Introduces Airfast RF Power Solutions

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Industry's Highest Reported Silicon Doherty Efficiency at 2.6GHz

## **Market Dynamics & Product Requirement Trends**





# Market Need for Airfast 28V AFT26HW050S

- Designed specifically for wide instantaneous bandwidth micro / metro cell LTE applications between 2500 – 2700 MHz
- Seven points higher efficiency than previous LDMOS solutions and the highest silicon Doherty efficiency in the industry at this frequency
- Housed in a manufacturing-friendly, surface-mount air-cavity package enabling devices to be mounted on embedded coins or simple via arrays for thermal and electrical grounding
- Device is configured in a dual-path (Doherty compatible) configuration
- Dual-path concept offers size reduction by combining main and peaking into single package



### **Key Product Features**



#### Airfast RF Power Solutions 28V LDMOS

- Designed for cellular operation from 2500 MHz to 2700 MHz
- Dual-path device
- Ideal for in-package Doherty application
- Housed in NI780S-8 package



### **Key Product Features**

## AFT26HW050S



### Airfast RF Power Solutions AFT26HW050GS

- 2620 2690 MHz performance in Doherty test fixture:
- Peak power of 50W
- At average power of 8W
  - Gain: 15.5 dB
  - Drain Efficiency: 48%
  - DPD correction to -54 dBc using 20 MHz LTE signal
  - Over 100 MHz instantaneous bandwidth capability



