

LTE Release 10 Information per KDB 941225 D05A

1)	FCC ID:	VZX-PM90G
2)	References to Standards	
a)	LTE release and version numbers of the 3GPP documents used to implement the specific device(s):	3GPP TS 36.521-1 Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing Release 10.6
b)	3GPP release and version numbers required for power measurements and RF test setup conditions:	3GPP TS 36.521-1 Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing Release 10.6
3)	Explanations of inter-band and intra-band aggregation Capabilities	
a)	Intra-band and inter-band carrier aggregation for both downlink and uplink, including Wi-Fi offloading using LTE-U, LAA or LWA protocols?	Not support inter-band and intra-band carrier aggregation for both uplink and downlink, including Wi-Fi offloading using LTE-U, LAA or LWA protocols.
i)	Support of contiguous and non-contiguous component carriers for intra-band aggregation:	N/A
ii)	Frequency band combinations supported for inter-band carrier aggregation:	N/A
iii)	Number of component carriers, including all combinations, supported for intra-band and inter-band carrier aggregation in the uplink and downlink:	N/A
iv)	The channel bandwidth configurations applicable to each carrier aggregation configuration and the applicable carrier aggregation (CA) Bandwidth Classes; A ... F, etc.:	N/A
v)	Restrictions on certain channel combinations:	N/A
vi)	RB combinations supported by the carrier aggregation configurations:	N/A
b)	Carrier Aggregation is supported for downlink only:	VZX-PM90G does not support uplink and downlink carrier aggregation.
i)	Frequency bands and channel bandwidths allowed for the uplink and downlink configuration combinations?	N/A
ii)	Uplink maximum output power measurement with downlink carrier aggregation active measured, using the highest output channel measured without downlink carrier aggregation and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive?	N/A
iii)	SAR measurements required for downlink carrier aggregation per 3(b)(ii)?	N/A
c)	If Carrier Aggregation is supported for uplink, maximum output power and tune-up tolerance specified for each component carrier in each carrier aggregation configuration are required to determine the SAR test configurations:	VZX-PM90G does not support uplink and downlink carrier aggregation.
i)	When power reduction applies, the maximum output power specifications and measured results with and without carrier aggregation in the reduced power configurations are included?	N/A
ii)	Does the maximum output power specified for production units, including tune up tolerance, varies across channel bandwidth, modulation, RB allocation, channels etc.?	N/A
d)	Description of Test Equipment and Setup for power and SAR measurements?	N/A
e)	Other restrictions or limitations associated with the carrier aggregation implementation?	N/A
4)	Enhanced SC-FDMA supported in the UL? Provide details of implementation, limitations and restrictions, including:	Enhanced SC-FDMA not supported. (VZX-PM90G does not support uplink and downlink carrier aggregation.)
a)	Decoupling of control and data transmissions to enable simultaneous transmission of PUCCH and PUSCH	N/A
b)	Non-contiguous data transmission with clustered SC-FDMA to enable non-contiguous subcarriers in PUSCH transmissions.	N/A
c)	Issues relating to dynamic switching between schemes	N/A
d)	When a partially allocated PUSCH, a cluster of partially allocated PUSCH or a fully allocated PUSCH is transmitted simultaneously either with or without PUCCH, peak to average power ratio of the signal can increase substantially above Rel. 8 implementations	N/A
5)	Details of implementation of MIMO or other transmit diversity configurations:	Uplink LTE MIMO not supported.
6)	UE category and descriptions of the category requirements for supporting carrier aggregation, uplink MIMO and other UE configurations:	UE Category 6 : This model does not support US band downlink carrier aggregation. (This model does not support uplink MIMO.)
7)	Expected SAR complications with hardware or firmware associated with any LTE Rel. 10 features including: CoMP, HetNet, Relay, SON, cross carrier scheduling, eICIC, enhanced downlink MIMO, MBMS, M2M/D2D support etc.:	It doesn't matter for SAR complications because Tx power level of UE is unchanged even if LTE Release 10 features are implemented. This DUT does not support CoMP, HetNet, Relay, SON, cross carrier scheduling, eICIC, enhanced downlink MIMO, MBMS, M2M/D2D.
8)	Detailed descriptions of SVLTE support in any carrier aggregation configurations:	This model does not support SVLTE.
9)	Description of the device and other transmitters contained within it to identify various standalone and/or simultaneous transmission SAR testing concerns.	Please see the SAR report.