



## Compatibility Note

### OML Millimeter Wave Extension Module Prerequisites

#### Configuration for Agilent 8510

(Obsolete Product 2009: Replacement PNA)

Action	Part Number	Description
Choose and order one of the base VNA's with the options listed	8510B	Vector Network Analyzer with Rev. 5.41 firmware or later
	8510C	Vector Network Analyzer with all firmware versions
	8510XF	Vector Network Analyzer; User must load the Agilent supplied 8510C Operating System for waveguide operation
	8530A	Vector Network Analyzer; Refer to OML for system configuration
Millimeter Wave Controller or IF Interface Cable	85105A	Mod <i>customer modified</i> for LO 2-20 GHz, RF is 8-20 GHz, customer power supply required.
	85105A (H01, H03)	LO is 2-20 GHz, RF is 8-20 GHz, customer power supply required.
	85105A (K10)	LO is 2-20 GHz, RF is 8-28+ GHz, includes power supply for OML, not compatible with OML option x2, requires use of a 40 GHz or higher synthesizer. N/A 85105A (004) not compatible with OML modules.
	85105A (050)	<i>Customer modified</i> for LO 2-20 GHz, RF 8-20 GHz, customer power supply required. N/A 85105A (054) not compatible with OML modules.
	8510-60105	IF Interface Cable, measure S11 and S21 only, LO & RF freq. limited by synthesizers used.
LO Synthesizer Selection	83620A/B, 83621A, 83622A/B, 83623A/B/L, 83624A/B	20 GHz
	83630A, 83631A	26.5 GHz
	8364 A/B/L 83650A/B/L	40 GHz 50 GHz
	8340A/B	26.5 GHz both synthesizers must be 834x series, customer understands the spur switching problems and is responsible for additional filtering required.
	8341A/B	20 GHz both synthesizers must be 834x series, customer understands the spur switching problems and is responsible for additional filtering required.
RF Synthesizer Selection	83620A/B, 83621A, 83622A/B, 83623A/B/L, 83624A/B	20 GHz all 85105A versions require OML Option X2 above WR-10
	83630/B/L, 83631A	26.5 GHz most 85105A versions require OML Option X2 above WR-10 (WR-08 ok for K10)
	83640A/B/L 83650A/B/L	40 GHz can be used for all bands with 85105A-K10; all other 85105A versions require OML Option X2 above WR-10 50 GHz can be used for all bands with 85105A-K10; all other 85105A versions require OML Option X2 above WR-10
	8340A/B	26.5 GHz all 85105A versions require OML Option X2 above WR-10 (WR-08 ok for K10) both synthesizers must be 834x series and customer understands the spur and switching problems and are responsible for additional filtering.
	8341A/B	20 GHz all 85105A versions require OML Option X2 above WR-10 (WR-08 ok for K10) both synthesizers must be 834x series and customer understands the spur and switching problems and are responsible for additional filtering.