Synapse SNAP Modules	Through-Hole Modules						Surface-Mount	
	RF200P81	RF200PF1	RF200PD1	RF220UF1	RF266PC1	RF266PU1	SM220UF1	SM200P81
User Application Scripts Uploadable Over-the-Air	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Core SNAP Network Upgradeable Over-the-Air	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Frequency Band	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz
Raw Bandwidth	250Kbps, 500Kbps, 1Mbps, 2Mbps	250Kbps, 500Kbps, 1Mbps, 2Mbps	250Kbps, 500Kbps, 1Mbps, 2Mbps	250Kbps, 500Kbps, 1Mbps, 2Mbps	1Mbps, 2Mbps	250Kbps, 500Kbps, 1Mbps, 2Mbps	250Kbps, 500Kbps, 1Mbps, 2Mbps	1Mbps, 2Mbps
Memory Size	128K	128K	128K	128K	128K	128K	128K	128K
RAM Size	16K	16K	16K	16K	16K	16K	16K	16K
Antenna	Chip	F Antenna	RP-SMA	U.FL & Compact F	Chip	U.FL	U.FL & Compact F	Chip
Receive Amp	No	Yes (Discrete)	Yes (Discrete)	Yes (FEM)	Yes (Discrete)	Yes (Discrete)	Yes (FEM)	No
Transmit Amp	No	Yes (Discrete)	Yes (Discrete)	Yes (FEM)	Yes (Discrete)	Yes (Discrete)	Yes (FEM)	No
Transmit Power Output	+3 dBm	+15 dBm	+15 dBm	+20 dBm	+15 dBm	+15 dBm	+20 dBm	+3 dBm
Receiver Sensitivity	-100 dBm	-103 dBm	-103 dBm	-103 dBm	-100 dBm	-100 dBm	-103 dBm	-100 dBm
Processor Size	8 bit	8 bit	8 bit	8 bit	8 bit	8 bit	8 bit	8 bit
Size	33.86mm x 33.86mm	33.86mm x 33.86mm	33.86mm x 33.86mm	33.86mm x 33.86mm	24.38mm x 32.94mm	24.38mm x 32.94mm	29.8mm x 19mm	29.8mm x 19mm
Distance (Open Field)	1500ft	TBD	TBD	3 mi/2500ft	4000ft	1 mi	3 mi/2500ft	1500ft
Temperature Range	-40°C / +85°C	-40°C / +85°C	-40°C / +85°C	-40°C / +85°C	-40°C / +85°C	-40°C / +85°C	-40°C / +85°C	-40°C / +85°C
Certifications	FCC, IC	FCC, IC	FCC,IC	FCC,IC	FCC,IC	FCC,IC	FCC,IC,CE	FCC,IC
I/O Pins	20	20	20	20	15	15	33	33
A/D Pins	8	8	8	8	4	4	8	8
A/D Bits	10	10	10	10	10	10	10	10
Memory available for applications	58.5K	58.5K	58.5K	58.5K	58K	58K	58.5K	58.5K
Basic encryption	Included	Included	Included	Included	Included	Included	Included	Included
AES encryption	Included	Included	Included	Included	Included	Included	Included	Included