

|                                                       | SRM SERIES         |                        |                    |                    |                    |                    |                    | MRF SERIES                       |                                  |                                  | QFM SERIES          |                     | SFM SERIES         |                    |
|-------------------------------------------------------|--------------------|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------------------|----------------------------------|----------------------------------|---------------------|---------------------|--------------------|--------------------|
| Product Model                                         | XRM                | QE3                    | QRM                | SRM 2150           | SRM 1000           | SRM 0200           | SRM 1000(P)        | MRF 2150                         | MRF 1000                         | MRF 200                          |                     |                     | SFM 0200           | SFM 2150           |
| Physical Characteristics                              |                    |                        |                    |                    |                    |                    |                    |                                  |                                  |                                  |                     |                     |                    |                    |
| Operating Frequency                                   | 950 -2150 MHz      | 50-2150 MHz            | 50-2150 MHz        | 950-2150 MHz       | 5-1000 MHz         | 5-200 MHz          | 5-1000 MHz         | 950-2150 MHz                     | 5-1000 MHz                       | 5-200 MHz                        | 50-1000 MHz         | 950-2500 MHz        | 5-200 MHz          | 950-2150 MHz       |
| System Architecture                                   | 3-Stage            | Single Stage           | Single Stage       | Single Stage       | Single Stage       | Single Stage       | Single Stage       | Single Stage                     | Single Stage                     | Single Stage                     |                     |                     | Single Stage       | Single Stage       |
| Matrix Size                                           | Basic 32x32 in 6RU | Basic 64x64 in 6RU     | Basic 16x16 in 1RU | Basic 16x16 in 3RU | Basic 16x16 in 3RU | Basic 16x16 in 3RU | Basic 16x16 in 3RU | 1 or 2RU configuration dependent | 1 or 2RU configuration dependent | 1 or 2RU configuration dependent | Basic 16X16 in 1 RU | Basic 16X16 in 1 RU | Basic 16x16 in 3RU | Basic 16x16 in 3RU |
| Max System Configuration                              | 512x512 Max        | 1024 x 1024 Max        | 32X32 Max          | 256x256 Max        | 256x256 Max        | 256x256 Max        | 256x256 Max        | 12x4 Max                         | 12x4 Max                         | 12x4 Max                         | 32X32 Max           | 32X32 Max           | 64x64 Max          | 64x64 Max          |
| Impedance - 50 or 75 Ohms                             | √                  | √                      | √                  | √                  | √                  | √                  | √                  | √                                | √                                | √                                | √                   | √                   | √                  | √                  |
| Connectors - F, BNC, SMA                              | √                  | √                      | √                  | √                  | √                  | √                  | √                  | √                                | √                                | √                                | √                   | √                   | √                  | √                  |
| Non-Blocking - Full Fan-Out                           | √                  | √                      | √                  | √                  | √                  | √                  | √                  | √                                | √                                | √                                | X                   | X                   | X                  | X                  |
| Non-Blocking - Full Fan- In                           | X                  | X                      | X                  | X                  | X                  | X                  | X                  | X                                | X                                | X                                | √                   | √                   | √                  | √                  |
|                                                       |                    |                        |                    |                    |                    |                    |                    |                                  |                                  |                                  |                     |                     |                    |                    |
| Features                                              |                    |                        |                    |                    |                    |                    |                    |                                  |                                  |                                  |                     |                     |                    |                    |
| Hot Swap Switching Cards                              | √                  | √                      | X                  | X                  | X                  | X                  | X                  | X                                | X                                | X                                | X                   | X                   | X                  | X                  |
| Hot Swap Power Supplies                               | √                  | √                      | X                  | X                  | X                  | X                  | X                  | X                                | X                                | X                                | X                   | X                   | X                  | X                  |
| Hot Swap Controller                                   | √                  | Redundant control card | X                  | X                  | X                  | X                  | X                  | X                                | X                                | X                                | X                   | X                   | X                  | X                  |
| AGC                                                   | X                  | √                      | √                  | X                  | X                  | X                  | X                  | X                                | X                                | X                                | √                   | √                   | X                  | X                  |
| Gain/Attenuation                                      | √                  | √                      | √                  | X                  | X                  | X                  | X                  | X                                | X                                | X                                | √                   | √                   | X                  | X                  |
| RF Signal Level Monitoring                            | √                  | √                      | √                  | X                  | X                  | X                  | X                  | X                                | X                                | X                                | √                   | √                   | X                  | X                  |
| RF Path Health Monitoring with re route               | Auto Re-route      | X                      | Q-Route            | X                  | X                  | X                  | X                  | X                                | X                                | X                                | Q-Route             | Q-Route             | X                  | X                  |
|                                                       |                    |                        |                    |                    |                    |                    |                    |                                  |                                  |                                  |                     |                     |                    |                    |
| Communications                                        |                    |                        |                    |                    |                    |                    |                    |                                  |                                  |                                  |                     |                     |                    |                    |
| Serial - RS232, 422 & 485                             | √                  | √                      | √                  | √                  | √                  | √                  | √                  | √                                | √                                | √                                | √                   | √                   | √                  | √                  |
| Ethernet - SNMP, Telnet, 10/100 BaseT                 | √                  | √                      | √                  | √                  | √                  | √                  | √                  | √                                | √                                | √                                | √                   | √                   | √                  | √                  |
| Control - GUI interface, Third Party M&C, Front Panel | √                  | √                      | √                  | √                  | √                  | √                  | √                  | √                                | √                                | √                                | √                   | √                   | √                  | √                  |
|                                                       |                    |                        |                    |                    |                    |                    |                    |                                  |                                  |                                  |                     |                     |                    |                    |
| Electrical                                            |                    |                        |                    |                    |                    |                    |                    |                                  |                                  |                                  |                     |                     |                    |                    |
| AC Input (Auto ranging) 100-240VAC, 50/60 Hz          | √                  | √                      | √                  | √                  | √                  | √                  | √                  | √                                | √                                | √                                | √                   | √                   | √                  | √                  |
|                                                       |                    |                        |                    |                    |                    |                    |                    |                                  |                                  |                                  |                     |                     |                    |                    |

\* All matrices are solid state switches

\* SRM1000P is a bi-directional passive matrix, all others are unidirectional and active

\* Matrices defined as 5-200 MHz are intended for IF applications

\* Matrices defined as 5-1000 MHz are intended for cable distribution applications

\* Matrices defined as 950-2150 MHz are intended for L-band applications and may be used in teleports or headend downlinks

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