

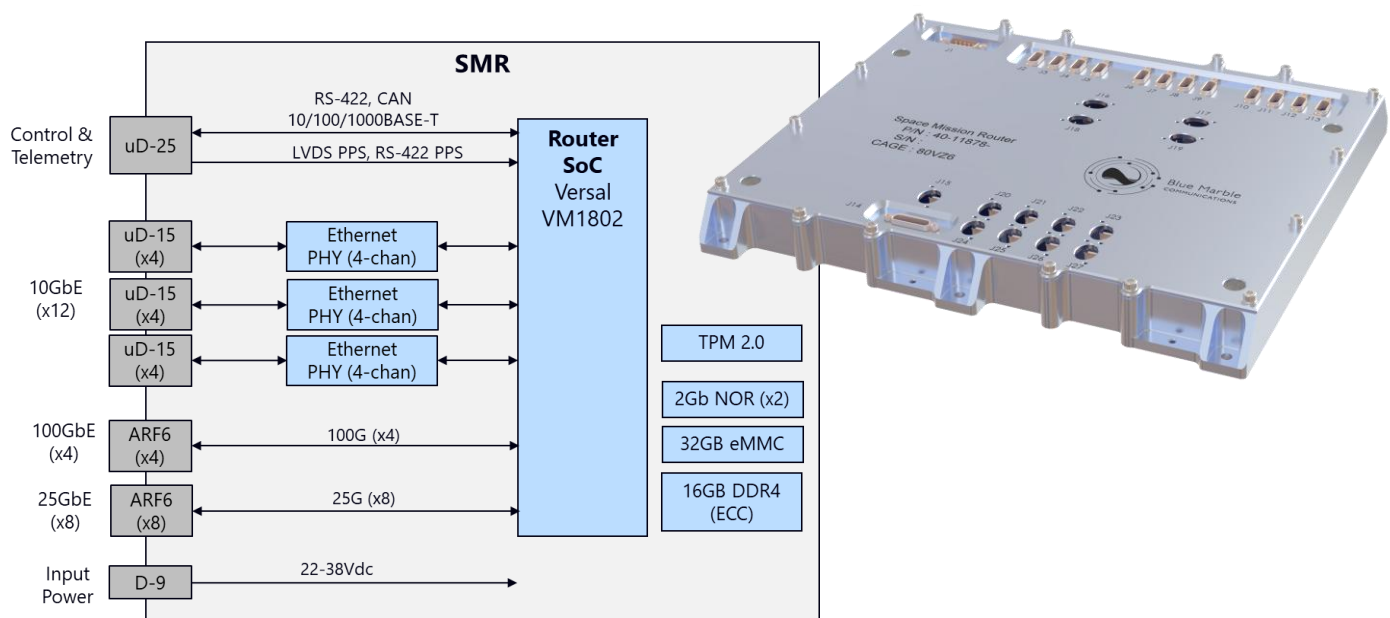
## Space Mission Router (SMR)

Blue Marble Communications radiation-hardened SMR is an 800Gbps, highly-configurable, MPLS router with 12GB deep packet buffering.

SMR boasts industry-leading radiation performance and power efficiency provided by AMD Xilinx Versal (7nm) SoC technology with integrated Ethernet hard IP.

A typical configuration is an MPLS router with standards-compliant label edge/switch routing (RFC3031), differentiated services (RFC3270), ECN (RFC5129), AQM (RFC7567), IP routing (RFC1812), virtualization (RFC3032), IP routing support (RFC1812), IP DSCP-based marking/policing/shaping, and other customer-specified features. SMR has successfully completed SDA PWSA NEBULA Network Verification Testing (NVT).

SMR integrates seamlessly with BMC's BMOT 100G optical communication terminals, SDX software-defined modem/transceivers, and SEP edge computers.



| Specification            | Performance                                                             |
|--------------------------|-------------------------------------------------------------------------|
| Configuration Management | NETCONF/YANG                                                            |
| Switching Capacity       | 800Gbps                                                                 |
| Buffering Capacity       | 12GB (96Gb)                                                             |
| Data Interfaces          | 12x 10/100/1000/2.5G/5G/10GBASE-T<br>4x 100GBASE-KR4<br>8x 25GBASE-(K)R |
| M&C/PPS Interfaces       | 10/100/1000BASE-T, RS-422, CAN                                          |
| Timing Interfaces        | LVDS PPS, RS-422 PPS                                                    |
| Size & Mass              | 27.9×24.2×3.2cm, 2.3kg                                                  |
| Power Input              | 22-38Vdc                                                                |
| Operating Temperature    | -20 to +60°C                                                            |