# Integra-G

integrated carrier-grade microwave radio,
delivering up to 1Gbps

- SAF Tehnika most powerful modem yet with 3.5MHz to 60MHz channel bandwidth and up to 2048QAM modulation support for universal network upgrades in a compact integrated design.

- Full outdoor unit includes radio, modem, Ethernet network processor, PoE splitter with surge arrestor and integrated antenna in a single hardware design.

- Direct radio and antenna integration guarantees weather-proof factory sealing and fast installation.

- Carefully selected materials for best corrosion resistance and simplified installation with a 50% weight reduction compared to other microwave systems.

- Built-in protected 2+0 layer 1 link bonding provides double capacity up to 982 Mbps and up to 1Gbps with header compression.

Integra-G is an unbelievably light, energy efficient carrier-grade system that exemplifies an outstanding return on smart engineering - the synergy of high competence in radio electronics and materials science. Integration of next generation microwave radio with high and super high performance antennas into a single unit. It translates into a lower total cost of ownership, as well as less time spent on the installation site, and better reliability of the link even in densely served areas.

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| Capacity | up to **1Gbps** with HC |
| Frequency bands | 15GHz, 17GHz UL, 18GHz, 23GHz, 24GHz UL, 25GHz, 26GHz, 28GHz, 32GHz, 38GHz, 42GHz and more* |
| Modulation | 4QAM / 16QAM / 32QAM / 64QAM / 128QAM / 256QAM / 512QAM / 1024QAM / 2048QAM with Hitless ACM |
| Configurations | 1+0, 2+0 link bonding |
| **Channel bandwidth** | |
| ETSI | from 3.5MHz up to 56MHz, up to 472 Mbps |
| FCC | from 5MHz up to 60MHz, up to 491 Mbps |
| **Gigabit Ethernet** | |
| 1x RJx45 | Electrical with built-in PoE splitter and surge arrestor |
| 2x SFP | Fibre Optics |
| **Service ports** | |
| 3.5mm | Audible alignment and RSSI |
| USB B-Type | Terminal Access |
| LED | Power On, Link Synchronization, RSL |
| Managed Gigabit Switch functionality | 802.1Q VLANs with QoS including WRED, shaping and DWRR, Spanning Tree Protocol, Jumbo frames and more* |
| Management | In-band, SNMP v1/2c/3, SSH, HTTPS, Serial, Radius, Network Time Protocol |
| Carrier Ethernet functionality | Provider Bridging, MEF9&14, High Efficiency Header Compression, AES 256-bit encryption, MPLS EXP-bit QoS, SyncE |
| Antenna type | Integrated antenna |
| Weight | Size 0.3m w/o mount 378x378x227 mm; <5kg Size 0.6m w/o mount 669x669x289 mm; <5kg Size 1ft w/o mount 14.9x14.9x9.0 inch; <11lbs Size 2ft w/o mount 26.3x26.3x11.4 inch; <11lbs |
| Temperature range | -33 ... +55 °C / -28 ... +130 °F |

**\*** Please contact SAF Tehnika representative for more information